District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1528640433
District RP	2RP-3325
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party EOG Resources, Inc.		OGRID	7377			
Contact Name Chase Settle		Contact	Telephone 575-748-1471			
Contact email Chase_Settle@eogresources.com			t # (assigned by OCD) NAB1528640433			
Contact mailing address 104 S. 4th Street, Artesia, NM 88210						
To For the one on, Antoona, This object						
			Location	of Release	Source	
Latitude 32.6	56279			Longitude	e104.53456	
Latitude <u>32.1</u>	302,3		(NAD 83 in dec	cimal degrees to 5 dec	ecimal places)	
Site Name Allison CQ Federal #10 Site Type		e Battery				
Date Release	Discovered	09/28/2015			)-015-26195	
		03,20,2013	· · · · · · · · · · · · · · · · · · ·			
Unit Letter	Section	Township	Range	Co	ounty	
Н	13	195	24E	Ed	ddy	
Surface Owner: State Federal Tribal X Private (Name:						
Surface Owner	: State	Federal Ir	ibal [X] Private (1	Vame:		
Nature and Volume of Release						
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil		Volume Release		calculations of specif	Volume Recovered (bbls)	
X Produced Water   Volume Released (bbls)   30			Volume Recovered (bbls) 5			
Is the concentration of dissolved chloride in the		X Yes No				
produced water >10,000 mg/l?		M 163 110				
Condensate Volume Released (bbls)		Volume Recovered (bbls)				
☐ Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)				
Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)	
Cause of Rele	ase Pleas	e refer to the a	ttached original	C-141 form for	2RP-3325 for cause of release and	

immediate action steps. EOG Resources is submitting for closure via the new form to formally

close out this incident. All sampling and correspondence is also attached.

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible j	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☑ The impacted area ha	as been secured to protect human health and	the environment.
✓ Released materials has	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
☑ All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	yhy:
		mediation immediately after discovery of a release. If remediation
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and		
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have		
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws		
and/or regulations.	1 a C-141 Teport does not reneve the operator of t	esponsibility for compliance with any other rederar, state, or rocar laws
Printed Name: Chase	^	Title: Rep Safety & Environmental Sr
Signature: Than	Pettle	Date: 09/27/2021
email: Chase_Settle	@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only		
Received by:		Date:



Incident ID	NAB1528640433
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# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

,	7		
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a wetland?			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No		
Are the lateral extents of the release within a 100-year floodplain?	Yes No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data			
Data table of soil contaminant concentration data  Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation blan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Photographs including date and GIS information

Laboratory data including chain of custody

Topographic/Aerial maps

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Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	



Incident ID	NAB1528640433
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# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.		
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>			
Deferral Paguete Only: Fach of the following items must be con	stirmed as part of any request for deferral of remediation		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.  Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.		
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of		
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of	Approval		
Signature:	Date:		

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NAB1528640433
District RP	2RP-3325
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)			
✓ Description of remediation activities			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.			
Printed Name: Chase Settle Title: Rep Safety & Environmental II			
Printed Name: Chase Settle Title: Rep Signature: $2 \frac{1}{2} \frac$	2021		
email: Chase_Settle@eogresources.com Telephone: 575-748-1471			
OCD Only			
Received by: Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by: Bradford Billings Date	:09/28/2021		
	e:Envi.Spec.A		

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RP#:

2RP-3325

**Location Name:** 

Allison CQ Federal #10

**Current Status:** 

Workplan approved by NMOCD; Landowner refusing access – agreement in progress. Closure report will be submitted once access is granted and work is complete.

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District I 1625 N, French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rond, Aztec, NM 87410 District IV

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised August 8, 2011

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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe, NM 87505	
Release Notificat	tion and Corrective Act	tion
DAB 1528 640433	OPERATOR	☐ Initial Report ☐ Final Report
Name of Company	Contact	NM OIL CONSERVATION
Yates Petroleum Corporation 25525	Chase Settle	ARTESIA DISTRICT
Address 104 S. 4 <sup>th</sup> Street, Artesia, NM 88210	Telephone No. 575-748-4171	1
Facility Name	Facility Type	OCT 0 9 2015
Allison CQ Federal #10	Battery	
		RECEIVED
Surface Owner Mineral Own Private Federal	1er	API No. 30-015-26195
Private Federal		30-013-20193
	ION OF RELEASE	
		East/West Line   County   Eddy
Latitude <u>32.6</u>	6279 Longitude <u>-104.53456</u>	
NATU	RE OF RELEASE	
Type of Release	Volume of Release	Volume Recovered
Produced Water	Date and Hour of Occurrence	5 B/PW Date and Hour of Discovery
Source of Release Produced water flow line failure	09/28/2015; PM	09/28/2015; PM
Was Immediate Notice Given?	If YES, To Whom?	
Yes No Not Requi	red Mike Bratcher, Heather Patters	on, Randy Dade, and Jim Amos
By Whom?	Date and Hour	
Robert Asher Was a Watercourse Reached?	09/29/2015; 10:15 AM If YES, Volume Impacting the	Watercourse.
Yes No	N/A	
If a Watercourse was Impacted, Describe Fully,* N/A		
Describe Cause of Problem and Remedial Action Taken,*	•	
There was a fallure of a produced water flow line which caused the re Describe Area Affected and Cleanup Action Taken.*	Hease,	
An approximate area of 225' X 140' was affected behind the bermed !	battery running from the north to the s	south. Vacuum trucks were called to remove
standing fluid, and impacted soil will be removed and taken to an NM	IOCD approved facility. Vertical and	horizontal delineation samples will be taken
and analysis ran for TPH & BTEX (chlorides for documentation). If it Final Report, C-141 will be submitted to the OCD requesting closure.	initial analytical results for 17H & B t If the analytical results are above thr	RRAL a work plan will be submitted to the
OCD. Depth to Ground Water: >100' (approximately 240', Section	on 13, T198-R24E, per Trend Map),	Wellhend Protection Area: No. Distance to
Surface Water Body: >1000', SITE RANKING IS 0.		
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea	to the best of my knowledge and und	erstand that pursuant to IMMOCD rates and
public health or the environment. The acceptance of a C-141 report b	y the NMOCD marked as "Final Repo	on" does not relieve the operator of liability
should their operations have failed to adequately investigate and reme	diate contamination that pose a threat	to ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 repo	ort does not relieve the operator of res	ponsibility for compliance with any other
federal, state, or local laws and/or regulations.	OIL CONSE	RVATION DIVISION
60 C 5	0115 001102	1 )
Signature:		
Printed Name: Chase Settle	Approved by Environmental Spec	cialist: fruit
Title: NM Environmental Regulatory Agent	Approval Date: 01315	Expiration Date: N 4
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval:	Atturbed [7]
	Conditions of Approval:  Remediation per O.C.D. Ru	les & Guldelines
Date: 10/09/2015 Phone: 575-748-4171 Attach Additional Sheets If Necessary	LICEARIA MEMERINA ISING CO.	OPOSAL NO
maon Additional Success is 1100099883	LATER THAN: 11/12/1	======================================

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MARTIN YATES, III 1912-1985 FRANK W. YATEB 1936-1986 8.P YATES



JOHN A. YATES SR. QHAIRMAN EMERITUS

JOHN A. YATES JR.

DOUGLAS E. BROOKS

## 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471

June 20, 2016

Mr. Mike Bratcher/ Ms. Heather Patterson NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Allison CQ Federal #10 Battery

30-015-26195

Section 13, T19S-R24E Eddy County, New Mexico

Dear Mr. Bratcher / Ms. Patterson,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated October 9, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after July 5, 2016.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle **Environmental Regulatory Agent** 

Enclosure(s)

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# Yates Petroleum Corporation

Allison CQ Federal #10 Battery Work Plan

Section 13, T19S-R24E

**Eddy County, New Mexico** 

June 20, 2016

2RP-3325

#### I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 8.1 miles before turning north on lease road for .75 mile to the location.

#### II. Background

On October 9, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 35 B/PW with 5 B/PW recovered. The affected area is approximately 225 feet by 140 feet behind the bermed battery running north to south. Initial delineation samples were taken (11/19/2015) and sent to a NMOCD approved laboratory (11/30/2015, results enclosed). Further sampling was conducted in the S4 and S5 release areas (12/04/2015) and sent to a NMOCD approved laboratory (12/28/2015, results enclosed). Continued sampling was conducted (1/19/2016) and sent to a NMOCD approved laboratory (02/02/2016, results enclosed). Additional sampling was conducted in the S3 sample area (02/09/2016) and sent to a NMOCD approved laboratory (02/24/2016, results enclosed)

#### III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 13, T19S-R24E) that depth to groundwater is approximately 240' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

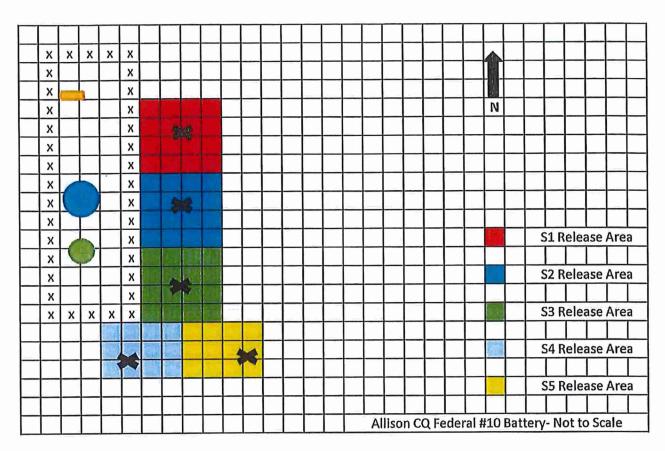
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

#### IV. Soils

The area consists of solls that are sand and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

#### V. Scope of Work

Based on enclosed analytical results, the depth to ground water (240'), a decrease in chloride concentration, and one (1) foot already excavated and hauled to disposal, Yates Petroleum Corporation proposes to excavate three (3) feet in all release areas, hauling excavated soils to an NMOCD approved facility for disposal. Yates will then install a 20 ml synthetic liner to prohibit percolation of moisture deeper into the subsurface, restricting chloride migration from penetrating deeper towards groundwater or rising back to the surface. Yates will then backfill the excavated area with two (2) feet of caliche, followed by two (2) feet of topsoil to allow for vegetative repopulation of the release site. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



Site Ranking is ten (0). DTGW >100' (approximately 240', Section 13, T19S-R24E, per Trend Map)

All results are ppm. Chlorides for documentation

Released: 30 B/PW; Recovered: 5 B/PW Release Date: 09/28/2015 2RP-3325

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
51.1	H503078	11/19/2015	Backhoe	1'	0.188	<10.0	<10.0	11100
53-2	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	13300
S1-k	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	13600
31.4	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	10000
11.5	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	6700
51.47	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	3100
51.7	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	4300
51.5	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	930
53.31	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	670
11-11	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	220
S2-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	12500
\$2-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	9200
52-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10,0	7860
52-4'	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	2700
S2-5°	1512603	11/19/2015	Backhoe	51	N/A	N/A	N/A	3900
\$2-6'	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	6200
\$2-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	1700
S2-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	120
S2-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	120

S2-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	74
S3-1"	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	784
S3-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	2200
\$3-3"	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	2200
S3-4"	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	2200
S3-5'	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	4800
\$3-6"	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	1200
\$3-7"	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	5600
\$3-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1500
S3-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S3-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	1800
53-15'	1602542	2/9/2016	Trackhoe	15'	N/A	N/A	N/A	3600
S3-17'	1602542	2/9/2016	Trackhoe	17'	N/A	N/A	N/A	700
S3-19 <sup>t</sup>	1602542	2/9/2016	Trackhoe	19'	N/A	N/A	N/A	ND
S4-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	12500
S4-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	8260
\$4-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	8000
\$4-4'	1512603	12/4/2015	Backhoe	4'	N/A	N/A	N/A	8200
S4-5'	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	9200
S4-6 <sup>1</sup>	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	9300
S4-7 <sup>1</sup>	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	8500
54-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	2600
S4-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1000
S4-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	230
S5-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	3640
S5-2 <sup>'</sup>	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	480
S5-3¹	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	1780
S5-4 <sup>1</sup>	1512603	12/4/2015	Backhoe	4'	N/A	N/A	N/A	7700
S5-5¹	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	8300
S5-6 <sup>'</sup>	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	4900
S5-7 <sup>1</sup>	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	640
S5-9¹	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1100
S5-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S5-13 <sup>'</sup>	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	81







December 14, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesla, NM 88210

RE: ALLISON CQ FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Color D. Frence

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-1' (H503078-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2.00	15.4	
Total Xylenes*	0.188	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	108 9	6 73.6-140	)	1					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	11/24/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	98.8	% 35-147							
Surrogate: 1-Chlorooctadecane	106	% 28-171							

**Cardinal Laboratories** 

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\*=Accredited Analyte

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soll

Cool & Intact

**Project Name:** 

ALLISON CQ FEDERAL #10

Sampling Condition: Sample Received By:

Jodl Henson

**Project Number:** 

NONE GIVEN

**Project Location:** 

**NOT GIVEN** 

Sample ID: S1-2' (H503078-02)

BTEX 8021B	mg/l	(g	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2,00	99.9	2,00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2,00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6,00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	1049	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10,0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.2	% 35-14	7						
Surrogate: 1-Chlorooctadecane	107	% 28-17	I						

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\*=Accredited Analyte

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Celler D. Free



#### Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

Sampling Type:

Soll

12/14/2015

Cool & Intact

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1-3' (H503078-03)

BTEX 8021B	mg/l	(g	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0,050	0.050	11/24/2015	ND	2,01	101	2,00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15,5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.2 9	6 73,6-14	)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600 ·	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifle
GRO C6-C10	<10,0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4,83	
Surrogate: 1-Chlorooctane	91.7	% 35-147							
Surrogate: I-Chlorooctadecane	102	% 28-171							

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## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

Sample ID: S2-1' (H503078-04)

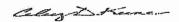
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2,00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	12500	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1,57	
DRO >C10-C28	<10.0	10,0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	102	% 35-147	7						
Surrogate: 1-Chlorooctadecane	106	% 28-17.	l						

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## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

**ALLISON CQ FEDERAL #10** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

## Sample ID: S2-2' (H503078-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0,050	11/24/2015	ND	2.00	99.9	2.00	11,2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15,4	
Total Xylenes*	<0.150	0,150	11/24/2015	ND	6.39	106	6,00	15.5	
Total BTEX	<0,300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	94.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	102	% 28-17.	1	4					

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\*=Accredited Analyte

PLEASE NOTE: Usbliet and Danages. Certifiel's lability and clerk's exclusive remody for any thin adding, whisher based in context or loci, shall be limited to the amount paid by clerk for analyses. All clims, including those for negliginous and any other cause inhaboteur shall be deemed volved volume made in recting and received by Cardinal within Usby (33) days after competition of the applicable service. In no event shall Cardinal be lable for indicantal or consequential diseases, including, which infliction, budges, budgess intermediately, loss of use, or loss of profits incurred by client, this inhabitates, a Fibrities or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients is based upon any of the abone stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in this with virtual approval of Cardinal Laboratories.



## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesla NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

Sampling Type:

Soll

12/14/2015

Sampling Condition:

Cool & Intact

Project Name:

ALLISON CQ FEDERAL #10 NONE GIVEN

Project Number: Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

# Sample ID: S2-3' (H503078-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2,00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2,00	99.9	2,00	11.2	
Ethylbenzene*	<0.050	0,050	11/24/2015	ND	2,12	106	2.00	15.4	
Total Xylenes*	<0.150	0,150	11/24/2015	ND	6.39	106	6,00	15.5	
Total BTEX	<0,300	0,300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	98.0	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	106	% 28-17	1						

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\*=Accredited Analyte

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Cellage Distraces





## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soll

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

#### Sample ID: S3-1' (H503078-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2.00	15,4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15,5	·
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10,0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	86.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.3	% 28-17	1						

#### Cardinal Laboratories

\*=Accredited Analyte

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PLEASE MOTE: Libbley and Damiges. Cardnal's labilary and clients exclusive remedy for any civins action, whether based in contract or text, shall be lemited to the amount paid by thank for analyses. All clims, lock-drog those for negligence and any other caves whattoever shall be deemed waived unless made in witting and received by Curdnal within thiny (30) days after completion of the applicable sendes. In no extent shall Curdnal be liable for indicable or consequential dismages, including, which landshap, business interroptions, loss of use, or loss of profits becurred by client, its subsidiales, affiliates or successors adding out of or related to the performance of the stricks hereunder by Cardnal, regardless of whither such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in Mil with written approval of Curdnal Laboratories.

Celleg Ditrane



## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: 11/20/2015

12/14/2015

ALLISON CQ FEDERAL #10

**Project Name:** Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 11/19/2015

Soil

Cool & Intact Jodl Henson

Sample ID: S3-2' (H503078-08)

BTEX 8021B	mg/l	(g	Analyze	i By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0,050	0.050	11/24/2015	ND	2.01	101	2,00	8.60	
Toluene*	<0.050	0,050	11/24/2015	ND	2,00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	93.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	101	% 28-17	1						

#### Cardinal Laboratories

Received by OCD: 9/27/2021 4:31:54 PM

\*=Accredited Analyte

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Celley D. Freena





#### Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: 11/20/2015

12/14/2015

ALLISON CQ FEDERAL #10

Project Name: Project Number:

NONE GIVEN

**Project Location:** 

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

11/19/2015

Soll

Sample Received By:

Cool & Intact Jodi Henson

Sample ID: S3-3' (H503078-09)

BTEX 8021B	mg/	kg	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8,60	
Toluene*	<0.050	0.050	11/24/2015	ND	2,00	99.9	2.00	11,2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2,00	15.4	
Total Xylenes*	<0.150	0,150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0,300	0,300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91,6	200	4.83	
Surrogate: 1-Chlorooctane	91.2	% 35-14	7			·			
Surrogate: 1-Chlorooctadecane	102	% 28-17	1						

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\*=Accredited Analyte

FLEASE HOTE: Utility and Danages. Cardral's lability and clients exclusive remedy for any claim adding whether based in contract or text, shall be limited to the amount paid by client for analyses. All dives, industry those for majeganess and poly current within thiny (30) days after completion of the applicable service. In no event shall Current be labile for indocated or consequential damages, and industry, where facilities, business betteropistons, loss of use, or loss of profes incomed by dust, its subdidates, affairles or successors adding out of or related to the performance of the services haveander by Cardral, reported or whether such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report that not be respectiveed except in full with written approval of Cardral Laboratories.

Celly Ditie





#### Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

.

11/20/2015

Reported: 12/14/2015

Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soll

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S4-1' (H503078-10)

Received:

BTEX 8021B	mg/l	<b>(</b> g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/24/2015	ND	2,01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2,00	11,2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6,00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102 %	6 73.6-140	)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			700		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	11/24/2015	ND	432	108	. 400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1,57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	90.7	% 35-147						+	
Surrogate: 1-Chlorooctadecane	98.6	% 28-171							

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\*=Accredited Analyte

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Celly Di Keena





## Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

## Sample ID: S4-2' (H503078-11)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	11/24/2015	ND	2.01	101	2.00	8,60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2,00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0,300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		I.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1,57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101	% 28-171	Ļ						

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\*=Accredited Analyte

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Calony Ditrema.





#### Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received: Reported: 11/20/2015

12/14/2015

ALLISON CQ FEDERAL #10

**Project Name:** Project Number: Project Location:

NONE GIVEN

**NOT GIVEN** 

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

11/19/2015

Soll

Cool & Intact

Jodi Henson

Sample ID: S4-3' (H503078-12)

BYEX 8021B	mg/	kg	Analyze	By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0,050	0.050	11/24/2015	ND	2,01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99,9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2.00	15.4	
Total Xylenes*	<0,150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0,300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10,0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4,83	
Surrogate: 1-Chlorooctane	94.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102	28-17	1						

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PLEASE NOTE: Libbity and Diresges. Certains's libbity and clerk's exclusive series/e certain arrived, which arrived to the applicable service. In no event shall be deemed waived urbus made in writing and received by Curdinal Whith Unity (30) days after conceptable of the applicable service. In no event shall Curdinal be listle for incidental or consequential dimages, including, whithen limitation, business interruptions, loss of use, or loss of profits incurred by clerk, its subsistance, sillabate or successors ariting out of or related to the performance of the service hereunder by Cardinal, regarders of whither such claims shall be performance of the service hereunder by Cardinal, regarders of whither such

Celley Ditie



#### Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

**NOT GIVEN** 

Sample ID: S5-1' (H503078-13)

BTEX 8021B	mg/	kg	Analyze	By: MS					
Analyté	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0,050	11/24/2015	ND	2.00	99.9	2,00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2,00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0,300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	3640	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91,6	200	4.83	
Surrogate: 1-Chlorooctane	93.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	99.3	% 28-171	ľ						

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Received by OCD: 9/27/2021 4:31:54 PM

\*=Accredited Analyte

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## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soll

**Project Name:** 

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

Sample ID: S5-2' (H503078-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2,00	8,60	
Toluene*	<0,050	0.050	11/24/2015	ND	2,00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2,12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	480	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4,83	
Surrogate: 1-Chlorooctane	101	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108	% 28-171							

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\*=Accredited Analyte

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## Analytical Results For:

YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soll

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

**NOT GIVEN** 

Jodl Henson

## Sample ID: S5-3' (H503078-15)

BTEX 8021B	mg/	kg	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0,050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	6 73.6-14	)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			The second second		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate; 1-Chlorooctane	92,3	% 35-147							
Surrogate: 1-Chlorooctadecane	102	% 28-171							

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\*=Accredited Analyte

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Cellag D. Freena.



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

Received by OCD: 9/27/2021 4:31:54 PM

\*=Accredited Analyte

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Celey D. Keene -

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

3	Sor
Draight Manager	ARDINAL LABORATORIES 101 East Mariend, Hobbs, NM 882-40
Chase Settle	BORATORIES and, Hobbs, NM
	88240
	(505

Project Name:		
-	(טעט) טעט בעבט	darland, Hobbs, NM 88240
	(505) 301-2326 FAX (505) 393-2476	

Relinguished by:		Relinquished by:	Relinguist		Special in		Ω	A		2	i			2	2		LA	B # (lab use only)	יין מחכם ויין מחלם	(lab use only)	Sa	9	ဋ	S	ဝ္ဂ	o n	10
hed by:		hed by:	Shed by		Special Instructions:		S3-3.	\$3-2'	S3-1'	S2-3"	S2-2"	1-70	3	ن ب	S1-2 <sup>-</sup>	S1-1.				-	Sampler Signature:	Telephone No.	City/State/Zip:	Company Address.	Compt (505) 393-232t Yates Petroleum Corporation	Project Manager.	ARDINA 101 Eas
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DV.	P	P.	Special Houseway	rictions:				<i>ι</i> , ((		<u>.i.</u>	ب	2'		FIELD CODE		H503678	9	Sampler Signature.		City/State/Zip: Artesia. NM 88210	Company Address: 105 South 4th Street	Compt (505) 393-2328 Yates Petroleum Corporation	Project Manager. Chase Some	aria	ARDINAL LABORATORIES	
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IIall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1512603

December 28, 2015

Chase Settle
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195

FAX

RE: Allison CQ Federal #10

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 15 sample(s) on 12/11/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Onlight

4901 Hawkins NE

Albuquerque, NM 87109

Released to Imaging: 9/28/2021 2:48:22 PM

Analytical Report Lab Order: 1512603

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/28/2015

	ates Petroleum Corpor lison CQ Federal #10				Lab Order: 1512	603
Lab ID: Client Sample ID:	1512603-001 S1-4'		4		nte: 11/19/2015 8:13:00 rix: SOIL	AM
Analyses		Result	RL Q	nal Units	DF Date Analyzed	Batch ID
EPA METHOD 300.	0: ANIONS	10000	750	mg/Kg	Ar 500 12/17/2015 12:32	nalyst: LGT :09 PM 22833
Lab ID: Client Sample ID:	1512603-002 S1-5'				ate: 11/19/2015 8:16:00 trix: SOIL	AM
Analyses		Result	RL Q	ual Units	DF Date Analyzed	Batch ID
EPA METHOD 300.	0: ANIONS	6700	300	mg/Kg	Ar 200 12/17/2015 12:44	nalyst: <b>LGT</b> :34 PM 22833
Lab ID: Client Sample ID:	1512603-003 S1-6'				Pate: 11/19/2015 8:19:00 trix: SOIL	AM
Analyses		Result	RL Q	ual Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	3100	150	mg/Kg	Aı 100 12/17/2015 1:09:	nalyst: LGT 23 PM 22833
Lab ID: Client Sample ID:	1512603-004 S2-4'				Date: 11/19/2015 8:34:00 trix: SOIL	AM
Analyses		Result	RL Q	ual Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	2700	150	mg/K <b>g</b>	A 100 12/17/2015 2:23:	nalyst: <b>LGT</b> 51 PM 22833
Lab ID: Client Sample ID:	1512603-005 S2-5'				Date: 11/19/2015 8:38:00 trix: SOIL	AM (
Analyses		Result	RL C	Qual Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	I.O: ANIONS	3900	150	mg/Kg	A 100 12/17/2015 2:36	nalyst: <b>LGT</b> 15 PM 22833

# Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

**Analytical Report** Lab Order: 1512603

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/28/2015

•	ates Petroleum Corpora Ilison CQ Federal #10	tion			Lı	ıb Or	der:	15126	503	***
Lab ID:	1512603-006	· · · · · · · · · · · · · · · · · · ·		C	Collection Date:			8:42:00	AM	
Client Sample ID:	S2-6'				Matrix:	SOI	L			
Analyses		Result	RL	Qual	Units	DF J	Date A	nalyzed	Bat	tch ID
EPA METHOD 300	.0: ANIONS								alyst:	
Chloride		6200	300		mg/Kg	200	12/17/2	015 2:48:4	0 PM	22833
Lяb ID:	1512603-007			C	Collection Date:			8:55:00	AM	
Client Sample ID:	S3-4'				Matrix:	SOI	L			
Analyses		Result	RL	Qual	Units	DF I	Date A	nalyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS				n.	<b>"</b> A	4011710		alyst:	
Chloride		2200	75		mg/Kg	60	12/17/2	015 3:01:0	5 PM	22833
Lab ID:	1512603-008			(	Collection Date:	11/1	9/2015	8:57:00	AM	
Client Sample ID:	\$3-51				Matrix	SO	L			
Analyses		Result	RL	Qual	Units	DF :	Date A	nalyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS								alyst:	
Chloride		4800	150		mg/Kg	100	12/17/2	2015 3:13:2	9 PM	22833
Lab ID:	1512603-009			(	Collection Date			5 9:01:00	AM	
Client Sample ID:	S3-6'				Matrix	: SO	IL			
Analyses		Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID
EPA METHOD 300	0.0: ANIONS							Ar	alyst:	JRR
Chloride		1200	30		mg/Kg	20	12/16/2	2015 4:44:0	7 PM	22833
Lab ID:	1512603-010			(	Collection Date			8:20:00 A	M	
Client Sample ID:	S4-4 <sup>1</sup>				Matrix	: SO	U.			
Analyses		Result	RL	Qual	Units	DF	Date A	malyzed	Ba	tch ID
EPA METHOD 300	D.O: ANIONS								-	LGT
Chloride		8200	300	)	mg/Kg	200	12/17/2	2015 3:25:	64 PM	22833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix  $\mathbf{p}$
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 4
- Sample pH Not In Range p
- Reporting Detection Limit

Received by OCD: 9/27/2021 4:31:54 PM

Analytical Report Lab Order: 1512603

Date Reported: 12/28/2015

# Hall Environmental Analysis Laboratory, Inc.

Yates Petroleum Corporation 1512603 CLIENT: Lab Order: Allison CO Federal #10 Project:

Collection Date: 12/4/2015 8:24:00 AM Lab ID: 1512603-011

Matrix: SOIL Client Sample ID: S4-5'

Result RL Qual Units DF Date Analyzed Batch ID Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 500 12/17/2015 3:38:19 PM 22833 9200 750 mg/Kg Chloride

Collection Date: 12/4/2015 8:28:00 AM 1512603-012 Lab ID:

Matrix: SOIL Client Sample ID: S4-6'

DF Date Analyzed **Batch ID** Result RL Qual Units Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 200 12/17/2015 4:15:33 PM 22840 9300 300 mg/Kg Chloride

Collection Date: 12/4/2015 8:55:00 AM Lab ID: 1512603-013

Matrix: SOIL Client Sample ID:

Result RL Qual Units DF Date Analyzed Batch ID Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 

200 12/17/2015 4:27:57 PM 22840 7700 300 mg/Kg Chloride Collection Date: 12/4/2015 8:58:00 AM

Matrix: SOIL Client Sample ID: S5-5'

DF Date Analyzed Result RL Qual Units **Batch ID** Analyses

Analyst: LGT **EPA METHOD 300.0: ANIONS** 500 12/17/2015 4:40:22 PM 22840 mg/Kg 8300 750 Chloride

Collection Date: 12/4/2015 9:01:00 AM 1512603-015 Lab ID:

Matrix: SOIL Client Sample ID: S5-6'

DF Date Analyzed RL Qual Units Batch ID Result Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 4900 300 mg/Kg 200 12/17/2015 4:52:46 PM 22840 Chloride

Refer to the OC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

Lab ID:

- Value exceeds Maximum Contaminant Level.
- $\mathbf{p}$ Sample Diluted Due to Matrix

1512603-014

- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range p
- Reporting Detection Limit

Page 3 of 4

# Received by OCD: 9/27/2021 4:31:54 PM

### QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

Result

ND

**PQL** 

1,5

WO#: 1512603 28-Dec-15

Client: Project:		cQ Federal	•	)N							
Sample ID	MB-22833	SampT	ype: ME	3LK	Test	Code: EF	A Method	300.0: Anion	ıs		
Client ID;	PBS	Batch	ID: 22	833	R	RunNo: 30	0906				
Prep Date:	12/16/2015	Analysis Da	ate: 12	2/16/2015	S	BeqNo: 94	44921	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Chloride		ND	1.5								
Comple ID	LCS-22833	CompT	ype: LC	.e	Tool	Code: Et	DodtoM AC	300.0: Anion	19		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sample in	LC9-22033	Sampi	ypa. Lu		100	LOUGE. LI	AMOUNT	DODIO: MITOL	••		
Client ID:	LCS-22033	• •	ype. LC ID: 22			RunNo: 36		000,0. Amoi			
•	LCSS	• •	ID: 22	833	R		0906	Units: mg/k			
Client ID:	LCSS	Batch	ID: 22	833 2/16/2015	R	RunNo: 36	0906			RPDLImit	Qual
Client ID: Prep Date:	LCSS	Batch Analysis D	i ID: 220 ate: 12	833 2/16/2015	R	RunNo: 36 SeqNo: 94	0906 44922	Units: mg/h	<b>⟨</b> g	RPDLImit	Qual
Client ID: Prep Date: Analyte	LCSS 12/16/2015	Batch Analysis D Result 14	ID: 22 ate: 12 PQL	833 2/16/2015 SPK value 15.00	SPK Ref Val	RunNo: 36 SeqNo: 94 %REC 92.8	0906 44922 LowLimit 90	Units: mg//	<b>√</b> g %RPD	RPDLImit	Qual
Client ID: Prep Date: Analyte Chloride	LCSS 12/16/2015	Batch Analysis D Result 14 SampT	PQL 1.5	833 2/16/2015 SPK value 15.00	SPK Ref Val 0	RunNo: 36 SeqNo: 94 %REC 92.8	0906 44922 LowLimit 90 PA Method	Units: mg/F HighLimit 110	<b>√</b> g %RPD	RPDLImit	Qual

Sample ID LCS-22840	SampT	ype: LC	S	Tes	Code: E	PA Method	300.0: Anlon	s		
Client ID: LCSS	Batch	ID: 22	840	R	tunNo: 3	0906				
Prep Date: 12/16/2015	Analysis D	ate: 12	2/16/2015	S	eqNo: 9	44950	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Chloride	14	1,5	15.00	0	94.1	90	110			

SPK value SPK Ref Val %REC LowLimit

### Qualifiers:

Analyte

Chloride

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix  $\mathbf{p}$
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- p Sample pH Not In Range
- Reporting Detection Limit

HighLimit

%RPD

**RPDLImit** 

Qual

Page 4 of 4

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

						<del></del>			····		
Client	Nøme;	Yates Petroleum	Corporat	Work O	rder Numbe	r: 151260	3		Rop	otNo: 1	
Receive	ed by/date	e: 5A		12.111	15					• -	•
Logged	Ву:	Lindsay Mangi	n	12/11/201	6 9:40:00 A	M	0	ndy Hlupp	ס		
Comple	sted By;	Lindsay Mangi	n	12/14/201	5 8:44:58 A	M	(F	ulyHbp)			
Review	ed By:		2	12/	14/1	<	V	V //			
Chain	of Cus	tody	a	14/	1/1	)				•	!
	•	is intact on sampl	e bollles?			Yes &		No 🗆	Not Present		
		Custody complete				Yes 🖟	Đ	No 🗆	Not Present		
3. Ho	w was the	sample delivered	17			Courle					
Log I	<u>n</u>										
_		mpt made to cool	the sample	s?		Yes 8	<b>₽</b>	No 🗆	NA	A 🗆	
5 W	an all name	uniae machied et	a tamparaki	m of NO O i	i- 6 0°0	v 52	<b>.</b>	No 🗆	NA	П	
U, VVE	ne an san	nples received at	a temperatu	le or so. C.t	.O 6,U°C	Yes 🖪	0	40 L	IVA	·	
6. Sa	mple(s) ir	n proper container	(\$)?			Yes	<b>₽</b>	No 🗆			
7, Su	fficient sa	mple volume for la	ndicated tes	l(s)?		Yes E		No 🗆			
8. Are	samples	(except VOA and	I ONG) prop	erly preserve	id?	Yes 🗷	P	No 🗆			
9. Wa	ıs preserv	ative added to bo	ttles?			Yes [		No 🙍	NA		
10,vo	A vials ha	ave zero headspa	ce?			Yes [	]	No □	No VOA Vials	; 🐼	
11, W	ere any sa	ample containers	received bro	ken?		Yes [		No 🗃	# of preserved		
40 =						[	хı	🗀	bottles checke		
		work match boltle pancies on chain			•	Yes &	<b>2</b> 1	No L	for pH:	(<2 or >12 unless	note
		s correctly identifie	• • • • • • • • • • • • • • • • • • • •	of Custody?		Yes 🗜	Đ	No 🗆	Adjuste	d?	
		nat analyses were				Yes E	_	No 🗆			
		ding times able to customer for auth				Yes d		No 🗀	Checked	d by:	
,	, -		,								
Specia	al Hand	iling (If applic	able)								
16.W	s client n	otified of all discre	epancles wit	h this order?		Yes [	]	No 🗆	NA NA	√ <b>28</b>	
	Persor	n Notified:	1.238.342.14C14-42Y.4.C	<del>4,7,5,5,5,6,6,6,6,3,8,6,4,9</del>	Date:		*************	amora est			
	By Wh	iom:		which is the second	Via;	☐ eMail	Phone	☐ Fax	☐ In Person		
	Regard	Zazan		71334015443007		At Delland			wischelander in the contract		
		Instructions:			·• •			.,	* ***		
17. Ad	iditional r	emarks;									
18, <u>ç</u> ı	ogler Info			<b></b>	ايديما	н	1 =:				
Į.	Cooler N	<del></del>		Seal Intact 'es	Seal No	Seal Date	Sign	ed By	-		
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Received by OCD: 9/27/2021 4:31:54 PM

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				"- Project Name:	X	·	Ì		ı. . >	ww.h	allenv	ronm	www.hallenvironmental.com	E C			
Mailing	Mailing Address:	2,2			Allison CQ Federal #10	deral #10	, য	- 10s	4901 Hawkins NE	S S	- Alb	uquer	- Albuquerque, NM 87109	8. 8.	7109		
105 Sol	uth 4th S	105 South 4th Street Artesia, NM	sia; NM 88210	Project#:				Tel:-5(	Tel: 505-345-3975	397	·	Fax .5(	505-345-4107	7470	7.		
Phone #	#	575-703-6537	6537	•	30-015-26195	6195.	7				Analy	ysis R	Request	- St			
email o	email or Fax#:	csettle@y	csettle@yatespetroleum.com	Project Mana	anager:					•	: .						
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11/192015		8:13 Soil	S14'	1 - 402	NONE	ĬQ-			÷	- <del></del>	· .	÷ ×		<u>-:</u>			
11/192015		8:16 Soil	S1-5:	1 - 40Z	NONE				::	$-\frac{1}{2}$		· ×					
11/192015	. :	8:19 Soil.	: '9-jis	1.–4òż.	NONE	-003		-				×	· .				
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11/192015	·	8:42 Soil	.: e-7S	1 - 40Z	NONE	-00	<u>.</u>	<u>;                                    </u>	•	_		×					'
11/192015	•	8:55 Sail	S3-41	1 - 40z.	NONE	-007					· 	×		-		•	
11/192015		Soil	S3-5'	1 - 4oz.	NONE	-008	:	-	·:	-}		×					-
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12/4/2015	٠	8:20 Soil	<b>34.4</b>	1 - 4oz.	NONE	-000		<u>-</u> _				×	-				_
12/4/2015	ľ	8:24 Soil		.1. – 4oz.	NONE	100						×		_			
12/4/2015		8:28 Soil		1 - 402.	NONE	- 210-	•	•				×					
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	f necessary,	, samples subn	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	subcontracted to other	accredited laborator	des, This serves as notice of this	Tidissod	v. Any	zib-cont	acted d	d Illiw sh	a rdearty	- And Afford	i. fina	another.	la l	ا.

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Phone #	#	575-703-6537	-6537	÷			30-015-26195	16195					. 5	vsis F	Analysis Rennest	- t	7	,		
email	email or Fax#.	csettle@	csettle@vatespetroleum.com	leum.com		Project Manager.	ger.							(1)				_		
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	necessary,	samples subm	illed to Hall Envi	If necessary, samples submitted to Hall Environmental may be sub-	Subcont	acted to officer and	artiend laboratedox	10 mm m m m m m m m m m m m m m m m m m				:					'		.	



ENVIRONMENTAL LABORATORY

February 02, 2016

Chase Settle

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

TEL: (575) 748-4195

FAX

RE: Allison CQ Federal #10

OrderNo.: 1601861

Released to Imaging: 9/28/2021 2:48:22 PM

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/22/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the OC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andist-

4901 Hawkins NE

Albuquerque, NM 87109

Project:

Analyses

Received by OCD: 9/27/2021 4:31:54 PM

Analytical Report
Lab Order: 1601861

DF Date Analyzed

Date Reported: 2/2/2016

### Hall Environmental Analysis Laboratory, Inc.

Allison CO Federal #10

CLIENT: Yates Petroleum Corporation

Lab Order:

1601861

Batch ID

Lab ID: 1601861-001 Collection Date: 1/19/2016 8:14:00 AM

Client Sample ID: S1-7' Matrix: SOIL

Result

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 4300
 150
 mg/Kg
 100 1/27/2016 4:44:43 PM
 23417

PQL Qual Units

Lab ID: 1601861-002 Collection Date: 1/19/2016 8:28:00 AM

Client Sample ID: S1-9' Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride 930 30 mg/Kg 20 1/26/2016 2:07:59 PM 23417

Lab ID: 1601861-003 Collection Date: 1/19/2016 8:30:00 AM

Client Sample ID: \$1-11' Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 670
 30
 mg/Kg
 20
 1/26/2016 2:20:24 PM
 23417

Lab ID: 1601861-004 Collection Date: 1/19/2016 8:41:00 AM

Client Sample ID: S1-13' Matrix: SOIL

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 220
 30
 mg/kg
 20
 1/26/2016 2:32:49 PM
 23417

Lab ID: 1601861-005 Collection Date: 1/19/2016 9:23:00 AM

Client Sample ID: S2-7' Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS
Chloride 1700 75 mg/Kg 50 1/27/2016 4:57:08 PM 23417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order: 1601861
Date Reported: 2/2/2016

### Hall Environmental Analysis Laboratory, Inc.

			<u> </u>		
**	ates Petroleum Corp llison CQ Federal #1				Lab Order: 1601861
Lab ID:	1601861-006		****	Collection D	ate: 1/19/2016 9:34:00 AM
Client Sample ID:	S2-9'			Mat	trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		120	30	mg/Kg	20 1/26/2016 2:57:38 PM 23417
Lab ID:	1601861-007			Collection D	Pate: 1/19/2016 9:56:00 AM
Client Sample ID:	S2-11'			Mat	trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch II
EPA METHOD 300	.0: ANIONS				Analyst: LGT
Chloride		120	30	mg/Kg	20 1/26/2016 3:10:02 PM 23417
Lab ID:	1601861-008			Collection D	Date: 1/19/2016 10:15:00 AM
Client Sample ID:	S2-13 <sup>1</sup>			Ma	trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch II
EPA METHOD 300	0.0: ANIONS				Analyst: LGT
Chloride		74	30	mg/Kg	20 1/26/2016 3:22:27 PM 23417
Lab ID:	1601861-009			Collection E	Date: 1/19/2016 10:27:00 AM
Client Sample ID:	S3-7 <sup>1</sup>			· · Ma	trix: SOIL
Analyses		Result	PQL Qua	d Units	DF Date Analyzed Batch II
EPA METHOD 300	0.0: ANIONS				Analyst: LGT
Chloride		5600	300	mg/Kg	200 1/27/2016 5:09:32 PM 23417
Lab ID:	1601861-010			Collection I	Date: 1/19/2016 10:34:00 AM
Client Sample ID:	S3-9¹			Ma	trix: SOIL
Analyses		Result	PQL Qua	d Units	DF Date Analyzed Batch II
EPA METHOD 300	0.0: ANIONS				Analyst: LGT
Chloride		1500	75	mg/Kg	50 1/27/2016 5:46:46 PM 2341

### Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1601861

Date Reported: 2/2/2016

### Hall Environmental Analysis Laboratory, Inc.

	rates Petroleum Corp. Allison CQ Federal #1				Lab Order: 1601861
Lab ID: Client Sample ID:	1601861-011 S3-11'				ite: 1/19/2016 10:41:00 AM
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	1200	30	mg/Kg	Analyst: <b>LGT</b> 20 1/26/2016 4:24:28 PM 23417
Lab ID: Client Sample ID:	1601861-012 S3-13'				nte: 1/19/2016 10:48:00 AM
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	1800	75	mg/Kg	Analyst: <b>LGT</b> 50 1/27/2016 5:59:11 PM 23417
Lab ID: Client Sample ID:	1601861-013 S4-7'			Mati	ate: 1/19/2016 11:08:00 AM rix: SOIL
Analyses		Result	PQL Qua	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	8500	750	mg/Kg	Analyst: <b>LGT</b> 500 1/28/2016 1:38:26 PM 23436
Lab ID: Client Sample ID:	1601861-014 S4-9'				nte: 1/19/2016 11:15:00 AM rix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	2600	150	mg/Kg	Analyst: <b>LGT</b> 100 1/28/2016 1:50:51 PM 23436
Lab ID: Client Sample ID:	1601861-015 S4-11'				ate: 1/19/2016 11:23:00 AM rix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS	1000	30	mg/Kg	Analyst: LGT 20 1/27/2016 3:30:16 PM 23436

### Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 5

Released to Imaging: 9/28/2021 2:48:22 PM

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Received by OCD: 9/27/2021 4:31:54 PM

Analytical Report Lab Order: 1601861

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/2/2016

	Yates Petroleum Corpora Allison CQ Federal #10	tion				Lab O	rder:	1601861	
Lab ID: Client Sample ID:	1601861-016 \$4-13'			(	Collection Da Mat	ite: 1/1		34:00 AN	1
Analyses		Result	PQL	Qual	Units	DF	Date Anal	lyzed .	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	230	30		mg/Kg	20	1/27/2016	•	st: <b>LGT</b> // 23436
Lab ID: Client Sample ID:	1601861-017 S5-7'			(	Collection Da Mate	nte: 1/1 rix: SO		05:00 PM	í
Analyses		Result	PQL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	640	30		mg/Kg	20	1/27/2016	•	st: <b>LGT</b> A 23436
Lab ID: Client Sample ID:	1601861-018 S5-9'			(	Collection Da Mat	nte: 1/1 rix: SO		12:00 PM	ſ
Analyses		Result	PQL	Qual	Units	DF	Date Anal	lyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	1100	30		mg/Kg	20	1/27/2016	-	st: <b>LGT</b> 4 23436
Lab ID: Client Sample ID:	1601861-019 : S5-11'			(	Collection Da Mat	nte: 1/1 rix: SO		19:00 Pእ	1
Analyses		Result	PQL	Qual	Units	DF	Date Ana	lyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	1200	30	ľ	mg/Kg	20	1/27/2016	•	vst: <b>LGT</b> vl 23436
Lab ID: Client Sample ID:	1601861-020 : S5-13'		<del></del>	(	Collection D Mat	nte: 1/1 rix: SC		28:00 PN	1
Analyses		Result	PQL	Qual	Units	DF	Date Ana	lyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	81	30	)	mg/Kg	20	1/27/2016	•	/st: <b>LGT</b> M 23436

### Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 5
- P Sample pH Not In Range
- RL. Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 5

# Received by OCD: 9/27/2021 4:31:54 PM

### **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#;

1601861

02-Feb-16

Client:	Yates Petroleum Corporation
Project:	Allison CO Federal #10

Sample ID MB-23417	SampT	ype: Mi	3LK	Tes	lCode: El	PA Method	300.0: Anion	ıs		
Client ID: PB\$	Batch	1D: 23	417	F	RunNo: 3	1710				
Prep Date: 1/26/2016	Analysis D	ate: 1	/26/2016	8	SeqNo: 9	70391	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Chloride	ND	1,5								
Comple ID I CC 22447	Cama	ivner 1 C	·e	Tac	Cada: El	PA Mathad	300 O: Anior	) c		

Sample ID LCS-23417	Sampi	уре: с	· <b>5</b>	168	(Code: E	PA Methou	SON'O! WILLON	15		
Client ID: LCSS	Batch	ID: 23	417	F	RunNo: 3	1710				
Prep Date: 1/26/2016	Analysis D	ale: 1/	26/2016	5	SeqNo: 9	70392	Units: mg/k	₹g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID MB-23436	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 23436	RunNo: 31736		
Prep Date: 1/27/2016	Analysis Date: 1/27/2016	SeqNo: 971237	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLImit Qual
Chlorida	ND 1.5			

Sample ID LCS-23436	SampT	уре: LC	S	Tes	(Code: El	PA Method	300.0: Anion	S		
Client ID: LCSS	Batch	ID: 23	436	F	tunNo: 3	1736				
Prep Date: 1/27/2016	Analysis D	ate: 1/	27/2016	8	SeqNo: 9	71238	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- B Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 1901 Hawkins NE Affrequerque, NM 87109

TEL 505-315-3975 FAA: 505-345-4107
Walistie: www.hall-invironmental.com

### Sample Log-In Check List

Released to Imaging: 9/28/2021 2:48:22 PM

nebsae, www.nat	ien varianien en	at (m)		No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
Client Name: Yates Petroleum Corpora Work Order Number:	1601861		ReptNo:	1
Received by/date 37 01 22 16				
Logged By: Lindsay Mangin 1/22/2016 9:40:00 AM		Spreds/Helges Spreds/Helges		
Completed By Lindsay Mangin 1/22/2016 11:03:54 AM	l.	July Hayes		
Reviewed By: MS- 01/25/16		180		
Chain of Custody				
1 Custody seals intact on sample bottles?	Yes 🔽	No 🗀	Not Present	
2. Is Chain of Custody complete?	Yus .	No 🗔	Not Procent	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes V	No 🗀	NA []	
5. Were all samples received at a temperature of >0° C to 6.0°C	YAS V	No I	NA ITT	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No !		
8. Are samples (except VOA and ONG) properly preserved?	Yes V	No T		
9. Was preservative added to bottles?	Yes	No 🗹	NA T	
10,VOA vials have zero headspace?	Yes !	No 🛄	No VOA Viala 🔽	
11. Were any sample containers received broken?	Yos 🗌	No V	# of preserved	
40.000	Yes V	No 🗔	bottles checked for pH:	
12. Does paperwork match boille labels? (Note discrepancies on chain of custody)	Tes (V.)	110		or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes Mi	No L	Adjusted?	
14, is it clear what analyses were requested?	Yes 🗹	No 🗔		
15. Were all holding times able to be mot? (If no, notify customer for authorization.)	Yes 🔽	No 🛄	Checked by	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗔	NA M	
Person Notified: Date				
By Whom.	eMall [	Phone Fax	In Person	
Regarding:				
Client Instructions				
17. Additional remarks:				
18. Cooler Information Cooler No Temp "C Condition Scal Intact Seal No 1 2.0 Good Yes	Soal Dato	Signed By		

HALL ENVIRONMENTAL	ANALYSIS LABORATORY								(N	, 01	۲) ه	ielddu8 †i∆												_		
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Chain-of-Custody Record				ADS South 4th Street Artesia NM 88210	1537	petroleum.com		□ Level 4 (Full Validation)				Sample Request ID	51-7	S1-g-	\$1-11'	S1-13'	S2-7	.85-9.	\$2-11,	\$2-13"	S3-7	S3-8.	S3-11'	\$3-13'	in a pi	ed by:
of-Cus	etroleum C			troot Artox	575-703-6537	csettle@v						Watrix	Soil	Soil	Soil	Soil	Soil	Scil	Soil	Soil	Soil	Soil		ios:		Relinquished by:
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Ü	Client		Mailing	105.00	Phone #	email or Fax#	QA/OC Package:	☐ Standard	Accreditation:	I NELAP	D EDD (Type)	Date	11-97016 8:148	11192216 8:282	://9/2019 8:30a	1/19:2016 8:41a	1119/2016 9:23a	1/19/2016 9:34a	1/19/2016 9:56a	1,19/2016	1/15/2016	1119/2016	1.79.2075	11191717	)]-(Z-)	Dete:

	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuqueraue, NM 87109			Analy	(l <sup>i</sup> O)	o es BiO	(Gel	1082 1082 1082 1082	T + 18t( .8r .h0 .h0 .hA(	38 80 at 30 at 4 at 4 at 50 at	ETEX + MT BTEX + MT TPH Methoc TPH (Methoc BTP (Methoc BTP (Methoc BYO (PNA) BYO (PON) BYOUS (VON) BYOUS (YON) BYOUS (Semi-	×			×××	X	×	×	×				Remarks.	
ing i me:	lard 🗆 Rush	зте:	Allison CQ Federal #10	1		30-015-26195	anager:	Chase Settle	PO # 205, 0750	Chase Settle		Sample Temperature: 2, 0	Preservative HEAL No.	NONE 1012	NONE	NONE   -015	NONE $-O(C)$	NONE - 077	NONE - CX	NONE - CIG	NONE -(ZC)				Sale lime	of Dage Care
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Chain-of-Custody Record	Yates Petroleum Corporation			105 South Street Artesia NM 88210	און ספרום	575-703-6537	csettle@vatespetroleum.com		☐ Level 4 (Full Validation)		□ Other		Matrix Sample Request ID	24.7	34-6'	84-11	\$4.13'	55-7	.6-SS	\$5-11	\$5-13				Reinquished by:	Rémouished sy.
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Ü	Clent: Ya		Mailing Address:	105 South	100 000	Phone 亲	email or Fax#:	GA'QC Padkage	☐ Standard	Accreditation:	D NELAP	□ EDD (Type)	草	1752076 11:08a Soil	11:522016 11:15a	1119/2016 11:23a	17192016 11:34a Soil	1/19/2016 12:05p	1.192016 12:12p   Scil	1/19/2016 12:19p	1715/2016 12-28p				-	Date: Time:

if necessary, samples submitted to Hall Environmental may be subcontracted to other according laboratories. This serves as notice of the possibility. Any sub-contracted data will be dearly notabed on the analytical raport.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 23, 2016

Chase Settle Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 TEL: (575) 748-4111 FAX

RE: Allison CQ Federal #10

OrderNo.: 1602542

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/12/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the OC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Received by OCD: 9/27/2021 4:31:54 PM

Laboratory Manager

Andist

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1602542

Date Reported: 2/23/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Lab ID: 1602542-001

Client Sample ID: S3-15'

Collection Date: 2/9/2016 8:51:00 AM Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: LGT
Chloride	3600	150	mg/Kg	100 2/19/2016 9;21;21 P	M 23798

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602542

Date Reported; 2/23/2016

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S3-17'

CLIENT: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Collection Date: 2/9/2016 8:57:00 AM

Lab ID: 16

1602542-002

Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: <b>LG</b> T
Chloride	700	30	ma/Ka	20 2/17/2016 2:32:05 Pi	M 23798

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602542

Date Reported: 2/23/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-19'

 Project:
 Allison CQ Federal #10
 Collection Date: 2/9/2016 9:05:00 AM

 Lab ID:
 1602542-003
 Matrix: SOIL
 Received Date: 2/12/2016 9:35:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 ND
 30
 mg/Kg
 20
 2/17/2016 2:44:29 PM
 23798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Received by OCD: 9/27/2021 4:31:54 PM

### **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1602542

23-Feb-16

Client: Yates Petroleum Corporation Project: Allison CQ Federal #10

Sample ID MB-23798 SampType: MBLK

Client ID: PB\$ Batch ID: 23798 RunNo: 32237

Prep Date: 2/17/2016 Analysis Date: 2/17/2016 SeqNo: 985576 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLImit** HighLimit Qual

TestCode: EPA Method 300.0: Anlons

Chloride ND 1.5

Sample ID LCS-23798 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 23798 RunNo: 32237

Prep Date: 2/17/2016 Analysis Date: 2/17/2016 SeqNo: 985577 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 95.6 90 110

### Qualiflers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

В Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 4 of 4

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

### Sample Log-In Check List

	Website. Wry,nuti	enymoninen	ı <i>qı,çom</i>		
Client Name: Yates Petroleum Corpora	Work Order Number:	1602542		ReptNo:	1 .
Received by/date:	03/13/10				
Logged By: Ashley Gallegos	2/12/2016 9:35:00 AM		A		
Completed By: Ashley Gallegos	2/12/2016 10:49:21 AM		A		
Reviewed By:	salialia		. ()		•
Chain of Custody	ea free fix				
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗆	Not Present 🗹	
2, Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present 🗌	
3. How was the sample delivered?		Courier		•	
Log In					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	. NA 🗆	
5. Were all samples received at a temperature	of >0° C to 6 0°C	Yes 🗹	No ∏	NA 🗀	
	01 7 0 0 10 0.0 0		140 11	IVA L	
6. Sample(s) in proper container(s)?		Yes 🔽	No 🗆		
7, Sufficient sample volume for indicated test(s)	?	Yes 🗹	No 🗆	•	
8. Are samples (except VOA and ONG) properly	preserved?	Yes 🔽	No □		
9. Was preservative added to bottles?		Yes 🗆	No 🗹	NA 🗆	
10, VOA viats have zero headspace?		Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers received broker	1? .	Yes 🗆	No 🗹		
				# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗆	for pH:	r >12 unless noted)
13. Are matrices correctly Identified on Chain of C	Custody?	Yes 🔽	No 🔲	Adjusted?	i - 12 tilless (toted)
14, is it clear what analyses were requested?	•	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No □	Checked by:	
(it not notify costories for audionzation.)					
Special Handling (if applicable)					
16. Was client notified of all discrepancies with th	ls order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date		Occupation of the Company		]
By Whom:	Vla:	eMail [	] Phone [] Fax	☐ In Person	
Regarding:			·	Committee of the Admittee of t	
Client instructions:				CHOCOMIC Michigan Corist - 1986 S. North Michigan (Language Corps)	
17. Additional remarks:				· · · · · · · · · · · · · · · · · · ·	J
18. <u>Cooler Information</u>					
	al Intact   Seal No   Se	al Date	Signed By		
1 1.0 Good Yes				,	

	(NUO 1) CO
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845.3976. Fax 505-345-4107	(N or N)
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 45-3975. Fax 505-345-4107	
7 00 7 100 V	
DN (BD) (Som (M) 87	(AOV-ImeR) 0728
Ental., P. 55-34; address	8260B (VOA)
L ENVIRONN LYSIS LABO allenvironmental.com - Albuquerque, NM 87- 5. Fax 505-345-4107 Analysis Request	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> ) 8081 Pesticides / 8082 PCB's
Albri F. F. F.	X X X Anione (F.CI Mo. No. 10. 60.
INAL FINVIRON INALYSIS LABC www.hallenvironmental.com ns NE - Albuquerque, NM 8 5-3975. Fax 505-345-410	(HA9 10 AN9) O158
AN Wedins	EDB (Welpog 604.1)
HALL ENVIRONME ANALYSIS LABOR, www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975. Fax 505-345-4107	HPH Method 8016B (Gas/Diese
	BIEX + MTBE + TPH (Gas only
	BLEX + WIBE + TMB's (8021)
Mailing Address:  Mailing Address:  105 South 4th Street Artesia, NM 88210 Project #:  575-703-6537 email or Fax#: csettle@vatespetroleum.com Project Manager:	Chase Settle  Chase Settle  Bampler: Chase Settle  Sampler: Chase Sampler: Chase Sampler  Samp

Chase Settle	<b>3</b>	nain	-of-Ci	Record	1 um-Around 1 me:	ı me:				I	HALL ENVIRONMENTAL	Ź	IR	Z	Z	Z	4	
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Street Artesia, NM 88210	,			-	Project Name				1	W	w.halk	nviron	mental	Lcom				
Street Artesia, NM 88210   Project #: 30-015-26195   Stranged Parties   Stranged Project Manager: Chase Settle   Container   Project Manager: Chase Settle   Stranged Parties   Strang	JF 1	ddres	1.5 St.			llison CQ Fe	deral #10	4	301 H	wkins	H H	Albuqu	erque,	Ž	37109			
Contained by:   Contained by	1123	h 4th 5	Street Art	88210	Project #:			<b>-</b>	el. 50	5-345	3975	T.	505-3	4541	07			
Dother Manager:   Chase Settle   C	•		575-703	-6537	•	30-015-2	6195				An	alysis		sst		A 4		
Contained by:   Contained by	PM4 8	ax#:	csettle@		Project Manae	jer:						(ºc						
Contained   Cont	(0 -1	ickage:	3,3	T   eve / (Ent) / elidefort		Chase Settle	750					)S' <sup>†</sup> O <sub>0</sub>		<del></del>				:
Container   Section   Se	2 1 711	fion:	1.		Sampler	Chase Settle			95) 8			NO <sub>2</sub> ,F		····			· ·	(1)
Matrix   Sample Request ID   Type and #   Type		a. F	□ Ofhe		Olitio		E-No.		3015		ન∧વ		} / 66		140		<del></del>	1 10
Soil S3-15 1-402 NONE OD/ Soil S3-17 1-402 NONE -OD/ Soil S3-19 1-402 NONE -OD/ Soil S3-19 1-402 NONE -OD/ Soil S3-19 1-402 NONE -OD/ NONE -OD/ X  X  X  X  X  Relinquished by: Received by: Relinquished by: Date Time Date Time		Time	ļ	Sample Request ID	Container Type and #	Preservative Type	SHORT THE		TPH Method		10 AN9) 0188	TWO THE TAXABLE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TWO IS NOT	bloitee9 r808		1 11100 0 1 110			Alr Bubbles ()
Soil S3-17 1-40Z NONE -003  Soil S3-19 1-40Z NONE -003  Relingshed by: Received by:		1,51a	Soil			NONE	8	<u> </u>		<u> </u>				I			_	
Soil   S3-19"   1-40Z   NONE   -003		1.57a	Soil			NONE	EQD-		<del></del>	-		×			·		ļ	
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EOG Resources, Inc. Artesia Division Office 104 S. 4<sup>th</sup> Street Artesia, N. M. 88210

Released to Imaging: 9/28/2021 2:48:22 PM

February 11, 2021

NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Allison CQ Federal #10 Battery

30-015-26195 H-13-19S-24E Eddy County, NM 2RP-3325

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted accompanying the C-141 Final.

EOG Resources Inc. requests closure.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle

Rep Safety & Environmental II

EOG Resources, Inc.

Phase Settle

EOG Resources, Inc.

Allison CQ Federal #10 Battery

**Closure Report** 

30-015-26195

H-13-19S-24E

**Eddy County, NM** 

February 11, 2021

2RP-3325

Allison CQ Federal #10 Battery Closure Report 2RP-3325



February 11, 2021

Released to Imaging: 9/28/2021 2:48:22 PM

### I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 8.1 miles before turning north on lease road for .75 mile to the location.

### II. Background

On October 9, 2015, Yates Petroleum Corporation (YPC) submitted to the NMOCD District II office a Form C-141 for the release of 30 B/PW with 5 B/PW recovered. YPC submitted a Work Plan to NMOCD and BLM on June 20, 2016, which was approved by NMOCD on July 11, 2016, and by BLM on July 12, 2016. With NMOCD and BLM approval, work was to commence on the site in 2016, however the private surface owner would not allow the remediation to be completed according to the approved Work Plan.

### III. Remediation Work Completed

After a change in operator from YPC to EOG Resources, Inc. (EOG) and many negotiations between landowner and operator, remediation work began on the site February 26, 2020. To acquire approval from the private surface owner, EOG agreed to extend the excavation depth to six (6) feet below grade surface (bgs) for the entire remediation area, two (2) feet deeper than the depth in the approved work plan. EOG also agreed to use a Bentomat Geosynthetic Clay Liner (GCL) in place of the 20 ml synthetic liner due to the surface owner's strong aversion to the plastic liner.

The entire remediation area was excavated to six (6) feet bgs, with GHD Services Inc. providing sidewall excavation guidance and confirmation sampling. Notification of sampling was sent to NMOCD and BLM on March 16, 2020, with completion of confirmation sidewall sampling being March 19, 2020. The GCL was then installed in the bottom of the excavation, using a six (6) inch topsoil cushion on top of the liner prior to commencement of backfilling. Two and half (2.5) feet of caliche was then placed on top of the cushion, with the remaining backfill consisting of topsoil. All backfill soils were procured from the private surface owner.

Once the backfill was completed, the remediated area was seeded with the private surface owner's grass mix at their recommended rate.

Based on the completion of the above mentioned remediation work and revegetation of the site, EOG Resources, Inc. hereby submits the C-141 Closure.





**O**eog resources

Allison CQ Federal #10 Battery Closure Report 2RP-3325



February 11, 2021

### Soil Analytical Data

Sample ID	Depth (ft, bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
SW-1A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
SW-2	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	920
SW-2A	0-6	3-19-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
SW-3	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	210
SW-4	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
SW-5A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	310
SW-6A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	360
SW-7	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND.	ND	ND	660
SW-7A	0-6	3-19-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
SW-8	0-6	3-17-20	ND	ND	ND	ND	ND.	ND	ND	ND	ND	630
SW-8A	0-6	3-19-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	530
SW-9	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	360
SW-10	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
SW-16	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	480
SW-17	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	71
SW-18	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SW-19	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	81
SW-20	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND.	ND	88
SW-21	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	93
SW-22	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	270
SW-23N	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	530
SW-23S	0-6	3-17-20	ND	ND.	ND	ND	ND	ND	ND	ND	ND	200
SW-24A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
SW-25A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	360
SW-26	0-6	3-17-20	ND	ND	ND	ND	ND	ND.	ND	ND	ND	400
SW-27A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
SW-28B	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	390
SW-29B	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND.	110
SW-30A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	700
SW-30B	0-6	3-19-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-31A	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-32	0-6	3-17-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	850
SW-32A	0-6	3-19-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-33A	0-6	3-18-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-34A	0-6	3-18-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	75
SW-35B	0-6	3-18-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	530

February 11, 2021

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### Figure 1 Site Map with Sample Points





February 11, 2021

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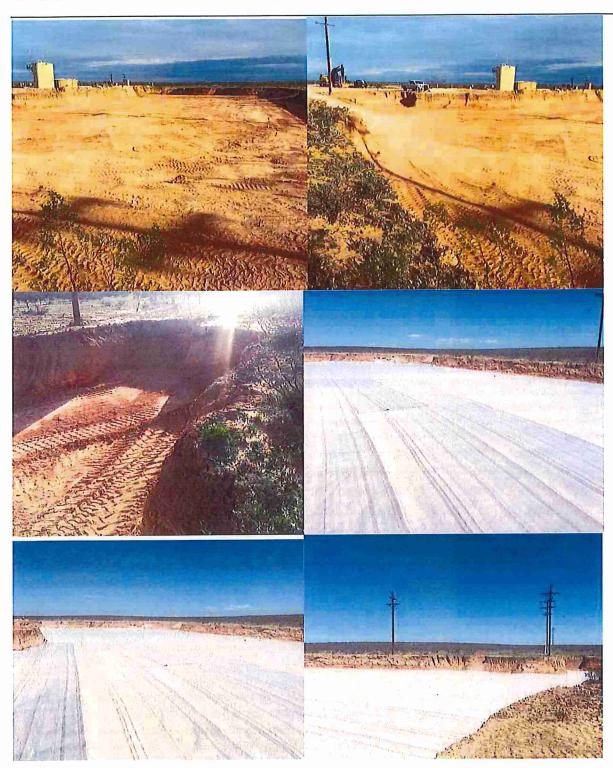
### **Photos**

Allison CQ Federal #10 Battery Closure Report 2RP-3325



February 11, 2021

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February 11, 2021

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### Appendix A Form C-141 Initial

Received by OCD: 9/27/2021 4:31:54 PM

District !
1625 N, French Dr., Hobbs, NM 88240
District !!
811 S. First St., Artesia, NM 88210
District !!!
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised August 8, 2011

Released to Imaging: 9/28/2021 2:48:22 PM

Submit | Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			_			e, NM 8/5	·	. ,					
A		1	Rei	ease Notif	lcatio	n and Co	orrective A	ction					
DAB 1528	(p402	133	)			<b>OPERA</b>	<b>FOR</b>	Σ	🛾 Initi	al Report	Final Repo		
Name of Company Yates Petroleum Co			4	5525		Contact Chase Settle	_			NM OI	L CONSERVAT		
Address	rporatio	011		0010		Telephone l			~~~		RTESIA DISTRICT		
104 S. 4th Street, Au	tesia, Ni	M 882	10			575-748-41					OCT 0 9 2015		
Facility Name						Facility Typ	)C				V LOTO		
Allison CQ Federal	#10					Battery			· · · · · · · · · · · · · · · · · · ·		RECEIVED		
Surface Owner				Mineral	Owner	**************************************			API No		VECETAED.		
Private			**************************************	Federal					30-015	-26195			
				LOC	ATIO	N OF RE	LEASE						
Unit Letter Section		nship	Rango	Foot from the		/South Line	Feet from the	Enst/We	st Line	County			
H 13	198	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	24E	1980'	North		600,	Enst	,,	Eddy			
				Latitude	<u>32.6627</u>	<u>9</u> Longitud	<u> -104.53456</u>						
				NA	TURE	OF REL	EASE						
Type of Release	, .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		* **.7		Volume of				Recovered			
Produced Water Source of Release						30 B/PW	lour of Occurrenc		B/PW	Hour of Di			
Source of Refease Produced water flow l	ine failur	e				09/28/2015			9/28/20		SCOVELY		
Was Immediate Notic	Given?					If YES, To	Whom?						
		XI	Yes L	No 🔲 Not	Required		ther, Heather Pati	erson, Kan	nay Dade	and Jim A	MOS		
By Whom? Robert Asher						Date and F	lour 5; 10:15 AM						
Was a Watercourse Re	ached?					If YES, Volume Impacting the Watercourse.							
			Yes 🗵	] No		N/A							
If a Watercourse was	mpacted,	Descri	ibe Fully,	* N/A									
Describe Cause of Pro There was a failure of					the releas	n							
Describe Area Affecte	d and Cle	eenup A	Action Tal	cen.*	,			······································	******				
An approximate area of standing fluid, and im	(225' X	140° w	as affecte	d behind the bea	nned batt	ery running fr	om the north to th	ie south. N	Vacoum	trucks were	called to remove		
and analysis ran for T	'H & BT	EX (ch	lorides fo	r documentation	). If initi	al analytical r	esults for TPH &	BTEX arc	under R	.RAL's (site	ranking is 0) a		
Final Report, C-141 w	ill be sub	mitted	to the OC	D requesting clo	sure, If	the analytical	results are above	the RRAL	a work	ed Iliw nalq	submitted to the		
OCD. Depth to Grou Surface Water Body:					section 1	J, 1195-1949	e, per trenamu	p), wenn	end Fro	ection are	a; 110, Distance to		
I hereby certify that th	e informa	tion gi	ven above	is true and com	picte to t	he hest of my	knowledge and u	ndersland	that pur	ment to NM	OCD rules and		
regulations all operato public health or the en	rs are requ	pired to	o report a	nd/or tile certain no of a Cald Lea	release n	olificallons a a NMOCD m	nd pertorm correct arked as "Final Re	tive action coort" dae	is for reli s not reli	eases which leve the one	may endanger antor of Hability		
should their operations	have fail	led to n	dequately	investigate and	remediat	e contaminati	on that pose a thre	eat to grou	ind water	, surface w	ater, human health		
or the environment. It				tance of a C-14	I report d	oes not reliev	s the operator of r	responsibil	lity for c	ompliance s	vith any other		
rederal, state, or tocal	1142 11110	ni tekn	ilutions.		T		OIL CONS	SERVA	TION	DIVISIO	DN		
	, (")	سسكنه											
Signature:	کرے	***************************************	<del></del>				P., . t		//				
Printed Name: Chase	Scttle					Approved by	Environmental Sp	occialist:	m.	1	2		
		1. 4.	Ageni			Approval Dat	11/12/15	Ext	niration	Date: N	12		
	ital Regu	intory.	1 South	<del></del>		Vhhoan pu				141	TI		
Title: NM Environme E-mail Address: esett													
Title: NM Environme			un.com	e: 575-748-417	He	Conditions of		lules &	Gulde	lines			

Received by OCD: 9/27/2021 4:31:54 PM





Form C-141 Final (2011-08-08 Edition)

eog resources

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

Initial Report

Form C-141 Revised August 8, 2011

Final Report

Released to Imaging: 9/28/2021 2:48:22 PM

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

**Release Notification and Corrective Action** 

**OPERATOR** 

Name of Co	mpany					Contact							
Yates Petro	eum Corp	oration				Chase Settle							
Address						Telephone 1							
		ia, NM 882	10			575-748-41							
Facility Nar						Facility Typ	e						
Allison CQ	Federal #1	.0				Battery							
D				Mineral C					API No				
Surface Ow	ner			Federal	JWHEE				30-015				
Private				rederai					30-013	-20193			
				LOCA	ATIO	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County			
H	13	19S	24E	1980'	North	.,.,.	660'	East		Eddy			
				Latitude 3	2 66279	66279 Longitude <u>-104.53456</u>							
						-							
				NAT	URE	OF REL							
Type of Rele						Volume of	Release	ļ		Recovered			
Produced Wa						30 B/PW			5 B/PW	TY CD'			
Source of Re Produced wa		Callerna				09/28/2015	Iour of Occurrence	e	09/28/201	Hour of Discovery			
Was Immedia						If YES, To		1	031201201	1.5, 1 WI			
Was innical	io ivolico c		Yes [	No 🔲 Not R	equired		cher, Heather Patt	erson, R	andy Dade	, and Jim Amos			
By Whom?					***	Date and F	lour						
Robert Asher							s; 10:15 AM						
Was a Water	course Reac					If YES, Vo	lume Impacting t	he Wate	rcourse.				
			Yes 🛚	No		N/A							
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	* N/A									
Describe Cau	se of Proble	em and Reme	dial Action	n Taken,*									
				e which caused th	ne release	9							
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*									
An approxim	ate area of 2	225' X 140' v	vas affecte	d behind the bern	ned batte	ery running fr	om the north to the	ie south.	Vacuum	trucks were called to remove			
standing fluid	i, and impac	ted soil Will to	e remove	d and taken to an	NMUCI	Japproved R	icility. Vertical a	nd norize	ontal delin	eation samples will be taken RAL's (site ranking is 0) a			
and analysis i	C-141 will	be submitted	to the OC	D requesting clos	nre Ift	n analytical i he analytical	results are above	the RRA	I. a work	plan will be submitted to the			
OCD. Denth	to Ground	Water: >10	0' (appro	ximately 240'. So	ection 13	3, T19S-R24	E, per Trend Ma	n), Well	head Prof	ection Area: No, Distance to			
Surface Wat	er Body: >.	1000', SITE	RANKIN	G IS 0. REMED	IATION	PLAN COM	IPLETED, EOG 1	equests (	Closure.				
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u	nderstan	d that purs	mant to NMOCD rules and			
regulations a	l operators :	are required to	o report ar	ıd/or file certain r	elease n	otifications a	nd perform correc	tive action	ons for rele	eases which may endanger			
public health	or the envir	onment. The	acceptance	e of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport" do	oes not reli	eve the operator of liability			
should their o	perations h	ave failed to a	dequately	investigate and i	emediate	e contaminati	on that pose a thr	eat to gro	ound water	, surface water, human health			
				tance of a C-141	report d	nes not renev	e the operator of	responsit	only for c	ompliance with any other			
federal, state,	or local lay	vo anu/or regi	nations.				OII COM	CEDV	ለ ፐፐርርኒኒ	DIVISION			
	10	0.					OIL CON	SEK V	WITON	DIAIDIA			
Signature:	how .	Settle											
		w				Approved by Environmental Specialist:							
Printed Name	: Chase Se	ttle				22		·					
Title: Rep Sa	fety & Env	ironmental II				Approval Date: Expire			expiration :	Date:			
1110, 100 00	w 1111		··			-Phasian war		1	F				
E-mail Addre	ss: Chase_	Settle@eogre	sources.co	om		Conditions of	Approval:			Attached			
		<del></del>								Auguleu []			
Date: 02/11/				e: 575-748-1471									
Attach Addit	ional Shee	ts If Necess	ary										

## Appendix C Form C-141 Final (2018-08-24 Edition)

**eoa resources** 

February 11, 2021

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### Appendix D Laboratory Data



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 24, 2020

Jeff Walker
GHD
6121 Indian School

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

**FAX** 

RE: Allison CQ Federal 10

OrderNo.: 2003796

## Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 26 sample(s) on 3/18/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Received by OCD: 9/27/2021 4:31:54 PM

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report** Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** Lab Order: 2003796 Project: Allison CQ Federal 10 Collection Date: 3/17/2020 10:00:00 AM 2003796-001 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-1A Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT 220 3/18/2020 11:18:08 AM 51179 Chloride 60 mg/Kg 20 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM 3/18/2020 10:08:11 AM 51174 Diesel Range Organics (DRO) ND 8.8 mg/Kg 3/18/2020 10:08:11 AM 51174 Motor Oil Range Organics (MRO) ND mg/Kg 1 44 Surr: DNOP 89.1 55,1-146 %Rec 1 3/18/2020 10:08:11 AM 51174 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/23/2020 4:02:21 PM G67491 Gasoline Range Organics (GRO) ND 4.4 mg/Kg 1 94.5 66.6-105 %Rec 1 3/23/2020 4:02:21 PM G6749' Surr: BFB **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.022 mg/Kg 3/18/2020 9:15:18 AM B67382 Renzene 3/18/2020 9:15:18 AM B67382 ND 0.044 mg/Kg Toluene 1 ND 0.044 mg/Kg 3/18/2020 9:15:18 AM B67382 Ethylbenzene ND 0.088 mg/Kg 3/18/2020 9:15:18 AM B67382 Xylenes, Total 87.5 80-120 %Rec 3/18/2020 9:15:18 AM B67382 Surr: 4-Bromofluorobenzene Collection Date: 3/17/2020 10:10:00 AM Lab ID: 2003796-002 Matrix: MEOH (SOIL) Client Sample ID: SW-2 RL Qual Units DF Date Analyzed Result **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT 3/18/2020 11:55:11 AM 51179 Chloride 920 60 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP 3/18/2020 10:08:38 AM 51174 Diesel Range Organics (DRO) ND 9.1 mg/Kg ND 45 mg/Kg 3/18/2020 10:08:38 AM 51174 Motor Oil Range Organics (MRO) 1 Surr: DNOP 87.8 55.1-146 %Rec 1 3/18/2020 10:08:38 AM 51174 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/23/2020 4:25:42 PM G67491 ND Gasoline Range Organics (GRO) 4.6 mg/Kg 1 66.6-105 3/23/2020 4:25:42 PM G6749' Surr: BFB 97.4 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.023 mg/Kg 3/18/2020 9:38:46 AM B67382 Benzene 1 ND 0.046 mg/Kg 3/18/2020 9:38:46 AM B67382 Toluene 0.046 3/18/2020 9:38:46 AM B67382 Ethylbenzene ND mg/Kg 1 ND 0.092 mg/Kg 3/18/2020 9:38:46 AM B67382 Xylenes, Total 1 80-120 3/18/2020 9:38:46 AM B67382 Surr: 4-Bromofluorobenzene 86.4 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Value exceeds Maximum Contaminant Level Qualifiers:

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quantitative Limit

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RI.

Page 1 of 29

CLIENT:

Xylenes, Total

Surr: 4-Bromofluorobenzene

**Analytical Report** 

Lab Order: 2003796

Lab Order:

Hall Environmental Analysis Laboratory, Inc.

**GHD** 

Date Reported: 3/24/2020

2003796

3/18/2020 10:02:27 AM B67382

Project: Allison CQ Federal 10 Collection Date: 3/17/2020 10:20:00 AM 2003796-003 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-3 RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 3/18/2020 12:07:32 PM 51179 210 60 Chloride mg/Kg 20 Analyst: BRM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** ND mg/Kg 3/18/2020 10:09:49 AM 51174 Diesel Range Organics (DRO) 9.4 ND mg/Kg 3/18/2020 10:09:49 AM 51174 47 Motor Oil Range Organics (MRO) %Rec 3/18/2020 10:09:49 AM 51174 83.4 55.1-146 Surr: DNOP **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB mg/Kg 3/23/2020 5:35:46 PM G6749' ND 4.4 1 Gasoline Range Organics (GRO) 3/23/2020 5:35:46 PM G6749' %Rec 95.1 66.6-105 Surr: BFB Analyst: NSB **EPA METHOD 8021B: VOLATILES** 3/18/2020 10:02:27 AM B67382 Benzene ND 0.022 mg/Kg 1 3/18/2020 10:02:27 AM B67382 ND 0.044 mg/Kg Toluene 3/18/2020 10:02:27 AM B67382 ND 0.044 mg/Kg Ethylbenzene 3/18/2020 10:02:27 AM B67382

ND

92.0

0.087

80-120

mg/Kg

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL. Reporting Limit

**Analytical Report** 

Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** 2003796 Lab Order: Project: Allison CQ Federal 10 Collection Date: 3/17/2020 10:30:00 AM 2003796-004 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-4 Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT 200 3/18/2020 12:19:52 PM 51179 Chloride 60 mg/Kg 20 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM 3/18/2020 10;32;19 AM 51174 Diesel Range Organics (DRO) ND 8.6 mg/Kg 3/18/2020 10:32:19 AM 51174 Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 Surr: DNOP 85.8 55.1-146 %Rec 3/18/2020 10:32:19 AM 51174 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 3/23/2020 7:09:36 PM G6749' Gasoline Range Organics (GRO) ND 4.7 mg/Kg 3/23/2020 7:09:36 PM G67491 Surr: BFB 90.5 66.6-105 %Rec 1 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 0.024 mg/Kg 3/18/2020 10:26:02 AM B67382 Benzene 3/18/2020 10:26:02 AM B67382 ND 0.047 mg/Kg Toluene ND 0.047 mg/Kg 3/18/2020 10:26:02 AM B67382 Ethylbenzene ND 0.095 mg/Kg 3/18/2020 10:26:02 AM B67382 Xylenes, Total 80-120 %Rec 3/18/2020 10:26:02 AM B67382 Surr: 4-Bromofluorobenzene 88.8 Collection Date: 3/17/2020 10:40:00 AM Lab ID: 2003796-005 Matrix: MEOH (SOIL) Client Sample ID: SW-5A RL Qual Units DF Date Analyzed **Batch ID** Result Analyses

Analyses	ACOUR	XX	Quin Onns	***		
EPA METHOD 300.0: ANIONS					Anal	lyst: <b>JMT</b>
Chloride	310	60	mg/Kg	20	3/18/2020 12:32:13	PM 51179
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Anai	yst: CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/18/2020 10:32:05	AM 51174
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2020 10:32:05	AM 51174
Surr: DNOP	93.7	55.1-146	%Rec	1	3/18/2020 10:32:05	AM 51174
EPA METHOD 8015D: GASOLINE RANGE					Anai	yst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	3/23/2020 7:33:15 F	M G6749
Surr: BFB	90.8	66.6-105	%Rec	1	3/23/2020 7:33:15 F	°M G6749′
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.022	mg/Kg	1	3/18/2020 10:49:41	AM B67382
Toluene	ND	0.044	mg/Kg	1	3/18/2020 10:49:41	AM B67382
Ethylbenzene	ND	0.044	mg/Kg	1	3/18/2020 10:49:41	AM B67382
Xylenes, Total	ND	0.088	mg/Kg	1	3/18/2020 10:49:41	AM B67382
Surr: 4-Bromofluorobenzene	90.4	80-120	%Rec	1	3/18/2020 10:49:41	AM B67382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 29

Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2003796

Allison CQ Federal 10 Project:

Lab ID:	2003796-006		C	ollection Date	: 3/1	17/2020 10:50:00 A	M	
Client Sample ID:	SW-6A			Matrix	; M	EOH (SOIL)		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	lyst:	JMT
Chloride		360	59	mg/Kg	20	3/18/2020 12:44:33	PM	51179
EPA METHOD 801	5M/D: DIESEL RANGE ORG	ANICS				Ana	lyst:	BRM
Diesel Range Organ	nics (DRO)	ND	9.2	mg/Kg	1	3/18/2020 10:31:50	AM	51174
Motor Oil Range Or	ganics (MRO)	ND	46	mg/Kg	1	3/18/2020 10:31:50	ΑM	51174
Surr: DNOP		83.6	55.1-146	%Rec	1	3/18/2020 10:31:50	AM	51174
EPA METHOD 801	5D: GASOLINE RANGE					Ana	lyst:	NSB
Gasoline Range Or	ganics (GRO)	ND	4.8	mg/Kg	1	3/23/2020 7:56:43 F	ъМ	G67491
Surr: BFB		93.0	66.6-105	%Rec	1	3/23/2020 7:56:43 F	PM	G6749′
EPA METHOD 802	1B: VOLATILES					Ana	lyst:	NSB
Benzene		ND	0.024	mg/Kg	1	3/18/2020 11:13:22	AM	B67382
Toluene		ND	0.048	mg/Kg	1	3/18/2020 11:13:22	AM	B67382
Ethylbenzene		ND	0.048	mg/Kg	1	3/18/2020 11:13:22	AM	B67382
Xylenes, Total		ND	0.097	mg/Kg	1	3/18/2020 11:13:22	AM	B67382
Surr: 4-Bromofluo	probenzene	86.2	80-120	%Rec	1	3/18/2020 11:13:22	AM	B67382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/24/2020

Hall Environmental Analysis La	boratory,	inc.			L	Date Reported: 3/24/	2020
CLIENT: GHD  Project: Allison CQ Federal 10				L	ab C	Order: 200379	96
Lab ID: 2003796-007		C	ollecti	on Date	: 3/1	7/2020 11:00:00 A	M
Client Sample ID: SW-7				Matrix	: M	EOH (SOIL)	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	yst: <b>JMT</b>
Chloride	660	60		mg/Kg	20	3/18/2020 12:56:53	PM 51179
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	yst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2020 10:56:32	•
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2020 10:56:32	
Surr: DNOP	92.6	55.1-146		%Rec	1	3/18/2020 10:56:32	AM 51174
EPA METHOD 8015D: GASOLINE RANGE						Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/23/2020 8:20:04 F	-
Surr: BFB	96.0	66.6-105		%Rec	1	3/23/2020 8:20:04 F	PM G6749
EPA METHOD 8021B: VOLATILES						Ana	lyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/18/2020 11:36:54	AM B6738
Toluene	ND	0.046		mg/Kg	1	3/18/2020 11:36:54	AM B6738
Ethylbenzene	ND	0.046		mg/Kg	1	3/18/2020 11:36:54	AM B6738
Xylenes, Total	ND	0.092		mg/Kg	1	3/18/2020 11:36:54	AM B6738
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	3/18/2020 11:36:54	AM B6738
Lab ID: 2003796-008		C	ollecti	on Date	: 3/	17/2020 11:10:00 A	M
Client Sample ID: SW-8				Matrix	: M	EOH (SOIL)	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	lyst: JMT
Chloride	630	60		mg/Kg	20	3/18/2020 1:09:15 F	PM 51179
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	lyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/18/2020 11:20:52	AM 51174
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2020 11:20:52	
Surr: DNOP	94.4	55.1-146		%Rec	1	3/18/2020 11:20:52	AM 51174
EPA METHOD 8015D: GASOLINE RANGE						Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/23/2020 8:43:21 F	•
Surr: BFB	94.5	66.6-105		%Rec	1	3/23/2020 8:43:21 F	
EPA METHOD 8021B: VOLATILES						Ana	lyst: NSB
Benzene	ND	0.021		mg/Kg	1	3/18/2020 12:00:35	PM B6738
Toluene	ND	0.041		mg/Kg	1	3/18/2020 12:00:35	PM B6738
Ethylbenzene	ND	0.041		mg/Kg	1	3/18/2020 12:00:35	
Xylenes, Total	ND	0.083		mg/Kg	1	3/18/2020 12:00:35	
Surr: 4-Bromofluorobenzene	87.3	80-120		%Rec	1	3/18/2020 12:00:35	PM B6738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е
- Value above quantitation range
  Analyte detected below quantitation limits J P
- Sample pH Not In Range
- RLReporting Limit

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Released to Imaging: 9/28/2021 2:48:22 PM

Lab Order:

2003796

GHD

Hall Environmental Analysis Laboratory, Inc.

Project: Allison CQ Federal 10

CLIENT:

Lab ID: 2003796-009 Collection Date: 3/17/2020 11:20:00 AM

Client Sample ID: SW-9 Matrix: MEOH (SOIL)

RL Qual Units Result DF Date Analyzed Analyses **Batch ID** Analyst: JMT **EPA METHOD 300.0: ANIONS** mg/Kg Chloride 360 60 3/18/2020 1:21:35 PM 51179 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: BRM mg/Kg 3/18/2020 11:45:06 AM 51174 Diesel Range Organics (DRO) ND 8.9 45 Motor Oil Range Organics (MRO) ND mg/Kg 1 3/18/2020 11:45:06 AM 51174 Surr: DNOP 3/18/2020 11:45:06 AM 51174 89.1 55.1-146 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/23/2020 9:06:54 PM Gasoline Range Organics (GRO) ND 3.5 mg/Kg G67491 Surr: BFB 95.0 66.6-105 %Rec 3/23/2020 9:06:54 PM G6749' **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.018 mg/Kg 3/18/2020 12:24:08 PM B67382 Benzene ND 0.035 3/18/2020 12:24:08 PM B67382 Toluene mg/Kg 3/18/2020 12:24:08 PM B67382 Ethylbenzene ND 0.035 mg/Kg 1 ND 0.070 mg/Kg 3/18/2020 12:24:08 PM Xylenes, Total 1 Surr: 4-Bromofluorobenzene 89.2 80-120 %Rec 3/18/2020 12:24:08 PM B67382

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 9/28/2021 2:48:22 PM

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT:	GHD	Lab Order:	2003796
Project:	Allison CQ Federal 10		

Troject: Amson eQ reacta ro							
Lab ID: 2003796-010		C	ollection Date	: 3/1	7/2020 11:30:00	4M	
Client Sample ID: SW-10			Matrix	; MI	EOH (SOIL)		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batc	h ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>J</b>	MT
Chloride	160	60	mg/Kg	20	3/18/2020 1:33:56	PM 5	51179
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Ana	alyst: B	3RM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/18/2020 12:09:24	4 PM 5	51174
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/18/2020 12:09:24	4 PM 5	51174
Surr: DNOP	95.4	55.1-146	%Rec	1	3/18/2020 12:09:2	4 PM 5	1174
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: N	ISB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	3/23/2020 9:30:34	PM G	36749
Surr: BFB	93.8	66.6-105	%Rec	1	3/23/2020 9:30:34	PM G	36749
EPA METHOD 8021B: VOLATILES					Ana	alyst: N	ISB
Benzene	ND	0.021	mg/Kg	1	3/18/2020 1:10:53	PM B	36738
Toluene	ND	0.043	mg/Kg	1	3/18/2020 1:10:53	PM B	36738
Ethylbenzene	ND	0.043	mg/Kg	1	3/18/2020 1:10:53	PM B	36738
Xylenes, Total	ND	0.086	mg/Kg	1	3/18/2020 1:10:53		36738
Surr: 4-Bromofluorobenzene	88.8	80-120	%Rec	1	3/18/2020 1:10:53	PM B	36738

 Lab ID:
 2003796-011
 Collection Date: 3/17/2020 11:40:00 AM

 Client Sample ID:
 SW-16
 Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	480	59	mg/Kg	20	3/18/2020 1:46:17 PM	51179
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	8.3	mg/Kg	1	3/18/2020 12:33:45 PM	1 51174
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	3/18/2020 12:33:45 PM	1 51174
Surr: DNOP	88.6	55.1-146	%Rec	1	3/18/2020 12:33:45 PN	1 51174
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	3/23/2020 9:54:15 PM	G6749′
Surr: BFB	95.2	66.6-105	%Rec	1	3/23/2020 9:54:15 PM	G6749′
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	3/18/2020 1:34:14 PM	B67382
Toluene	ND	0.045	mg/Kg	1	3/18/2020 1:34:14 PM	B67382
Ethylbenzene	ND	0.045	mg/Kg	1	3/18/2020 1:34:14 PM	B67382
Xylenes, Total	ND	0.090	mg/Kg	1	3/18/2020 1:34:14 PM	B67382
Surr: 4-Bromofluorobenzene	88.4	80-120	%Rec	1	3/18/2020 1:34:14 PM	B67382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 9/28/2021 2:48:22 PM

**Analytical Report** 

Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2003796

Allison CQ Federal 10 Project:

Lab ID: 2003796-012		C	Collection Date	: 3/1	7/2020 11:50:00	AM			
Client Sample ID: SW-17		Matrix: MEOH (SOIL)							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batcl	h ID		
EPA METHOD 300.0: ANIONS					An	alyst: <b>Ji</b>	MT		
Chloride	71	60	mg/Kg	20	3/18/2020 2:23:20	PM 51	1179		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				An	alyst: Bl	RM		
Diesel Range Organics (DRO)	ND	9,6	mg/Kg	1	3/18/2020 12:58:0	9 PM 51	1174		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2020 12:58:0	9 PM 51	1174		
Surr: DNOP	85.9	55.1-146	%Rec	1	3/18/2020 12:58:0	9 PM 51	1174		
EPA METHOD 8015D: GASOLINE RANGE					An	alyst: N	SB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/23/2020 10:18:0	1PM G	67491		
Surr: BFB	94.5	66.6-105	%Rec	1	3/23/2020 10:18:0	1PM G	6749′		
EPA METHOD 8021B: VOLATILES					An	alyst: N	SB		
Benzene	ND	0.023	mg/Kg	1	3/18/2020 1:57:31	PM B	67382		
Toluene	ND	0.046	mg/Kg	1	3/18/2020 1:57:31	PM B	67382		
Ethylbenzene	ND	0.046	mg/Kg	1	3/18/2020 1:57:31	PM B	67382		
Xylenes, Total	ND	0.093	mg/Kg	1	3/18/2020 1:57:31	PM B	67382		
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	3/18/2020 1:57:31	PM B	67382		

# Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

# Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix Đ
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RL

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**Analytical Report** 

Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD  Project: Allison CQ Federal 10			L	ab O	<b>2003796</b>	
Lab ID: 2003796-013		C	ollection Date	: 3/1	7/2020 12:00:00 PM	
Client Sample ID: SW-18					EOH (SOIL)	
Analyses	Result	RL	Qual Units			Batch ID
EPA METHOD 300.0: ANIONS					•	t: JMT
Chloride	170	60	mg/Kg	20	3/18/2020 2;35:40 PM	51179
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/18/2020 1:22:32 PM	51174
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2020 1:22:32 PM	
Surr: DNOP	82.3	55.1-146	%Rec	1	3/18/2020 1:22:32 PM	51174
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	· ND	4.9	mg/Kg	1	3/23/2020 10:41:45 PI	√l G6749
Surr: BFB	93.9	66.6-105	%Rec	1	3/23/2020 10:41:45 Pt	M G6749
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	, ND	0.024	mg/Kg	1	3/18/2020 2:20:53 PM	B67382
Toluene	ND	0.049	mg/Kg	1	3/18/2020 2:20:53 PM	B67382
Ethylbenzene	ND	0.049	mg/Kg	1	3/18/2020 2:20:53 PM	B67382
Xylenes, Total	ND	0.098	mg/Kg	1	3/18/2020 2:20:53 PM	B67382
Surr: 4-Bromofluorobenzene	94.2	80-120	%Rec	1	3/18/2020 2:20:53 PM	B67382
Lab ID: 2003796-014		C	ollection Date	3/1	7/2020 12:10:00 PM	
Client Sample ID: SW-19			Matrix	: M	EOH (SOIL)	
Analyses	Result	RL	Qual Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: CJS
Chloride	81	59	mg/Kg	20	3/18/2020 11:05:24 Al	vi 51178
EPA METHOD 8015M/D: DIESEL RANGE OR	CANICS				Analys	t: BRM
	CANO			1	3/18/2020 10:53:43 AI	
	NID	0.5			0/10/2020 10:00:70 /1	
Diesel Range Organics (DRO)	ND ND	9.5 48	mg/Kg mg/Kg		3/18/2020 10:53:43 Al	vi 51174
Motor Oll Range Organics (MRO)	ND	48	mg/Kg mg/Kg %Rec	1	3/18/2020 10:53:43 Al 3/18/2020 10:53:43 Al	
Motor Oll Range Organics (MRO) Surr: DNOP			mg/Kg		3/18/2020 10:53:43 Al	VI 51174
Motor Oil Range Organics (MRO) Surr: DNOP EPA METHOD 8015D: GASOLINE RANGE	ND 81.8	48 55.1-146	mg/Kg %Rec	1	3/18/2020 10:53:43 Al Analys	M 51174 st: <b>NSB</b>
Motor Oll Range Organics (MRO) Surr: DNOP	ND	48	mg/Kg		3/18/2020 10:53:43 Al	M 51174 st: <b>NSB</b> M G6749
Motor Oll Range Organics (MRO) Surr: DNOP  EPA METHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO)	ND 81.8 ND	48 55.1-146 3.6	mg/Kg %Rec mg/Kg	1 1	3/18/2020 10:53:43 Al Analys 3/23/2020 11:05:25 Pl 3/23/2020 11:05:25 Pl	M 51174 st: <b>NSB</b> M G6749
Motor Oll Range Organics (MRO) Surr: DNOP  EPA METHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO) Surr: BFB	ND 81.8 ND	48 55.1-146 3.6	mg/Kg %Rec mg/Kg	1 1	3/18/2020 10:53:43 Al Analys 3/23/2020 11:05:25 Pl 3/23/2020 11:05:25 Pl	M 51174 st: <b>NSB</b> M G6749 M G6749 st: <b>NSB</b>
Motor Oll Range Organics (MRO) Surr: DNOP  EPA METHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO) Surr: BFB  EPA METHOD 8021B: VOLATILES	ND 81.8 ND 96.0	48 55.1-146 3.6 66.6-105	mg/Kg %Rec mg/Kg %Rec	1 1 1 1	3/18/2020 10:53:43 Ai Analys 3/23/2020 11:05:25 Pi 3/23/2020 11:05:25 Pi Analys	51174 st: NSB M G6749 M G6749 st: NSB B6738
Motor Oll Range Organics (MRO) Surr: DNOP  EPA METHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO) Surr: BFB  EPA METHOD 8021B: VOLATILES Benzene	ND 81.8 ND 96.0 ND	48 55.1-146 3.6 66.6-105 0.018	mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg mg/Kg	1 1 1 1	3/18/2020 10:53:43 Al Analys 3/23/2020 11:05:25 Pl 3/23/2020 11:05:25 Pl Analys 3/18/2020 2:44:13 PM 3/18/2020 2:44:13 PM 3/18/2020 2:44:13 PM	M 51174 st: NSB M G6749 M G6749 St: NSB B6738: B6738: B6738:
Motor Oll Range Organics (MRO) Surr: DNOP  EPA METHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO) Surr: BFB  EPA METHOD 8021B: VOLATILES Benzene Toluene	ND 81.8 ND 96.0 ND ND	48 55.1-146 3.6 66.6-105 0.018 0.036	mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg	1 1 1 1 1	3/18/2020 10:53:43 Al Analys 3/23/2020 11:05:25 Pl 3/23/2020 11:05:25 Pl Analys 3/18/2020 2:44:13 PM 3/18/2020 2:44:13 PM	51174 st: NSB M G6749 M G6749 St: NSB B67382 B67382 B67382 B67382

Value exceeds Maximum Contaminant Level. Qualifiers:

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

E

Value above quantitation range
Analyte detected below quantitation limits
Sample pH Not In Range

Reporting Limit

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Released to Imaging: 9/28/2021 2:48:22 PM

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT:

**GHD** 

Lab Order:

2003796

Project:

Allison CQ Federal 10

Lab ID:

2003796-015

Collection Date: 3/17/2020 12:20:00 PM

Matrix: MEOH (SOIL)

Client Sample ID: SW-20 RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 88 60 mg/Kg 20 3/18/2020 11:17:48 AM 51178 Chloride Analyst: BRM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 3/18/2020 11:15:48 AM 51174 ND 9.4 mg/Kg Diesel Range Organics (DRO) 3/18/2020 11:15:48 AM 51174 mg/Kg Motor Oil Range Organics (MRO) ND 47 1 3/18/2020 11:15:48 AM 51174 55.1-146 %Rec Surr: DNOP 83.3 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 3/23/2020 11:29:11 PM G67491 ND 4.3 mg/Kg Gasoline Range Organics (GRO) 3/23/2020 11:29:11 PM G6749' 66.6-105 %Rec 94.5 Surr: BFB Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 0.021 mg/Kg 3/18/2020 3:07:38 PM B67382 Benzene 3/18/2020 3:07:38 PM B67382 ND 0.043 mg/Kg Toluene 0.043 mg/Kg 3/18/2020 3:07:38 PM B67382 ND Ethylbenzene mg/Kg B67382 0.086 3/18/2020 3:07:38 PM 1 ND Xvlenes, Total 3/18/2020 3:07:38 PM B67382 88.2 80-120 %Rec Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit RL

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Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2003796

Project: Allison CQ Federal 10

Lob ID: 2003796 016

Collection Date: 3/17/2020 12:30:00 PM

Collection Date: 3/17/2020 12:30:00 PM Lab ID: 2003796-016 Matrix: MEOH (SOIL) Client Sample ID: SW-21 DF Date Analyzed **Batch ID** Result RL Qual Units Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 3/18/2020 11:30:13 AM 51178 mg/Kg 60 Chloride 93 20 Analyst: BRM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** ND 9.3 3/18/2020 11:37:40 AM 51174 Diesel Range Organics (DRO) mg/Kg ND 47 mg/Kg 3/18/2020 11:37:40 AM 51174 Motor Oil Range Organics (MRO) %Rec 3/18/2020 11:37:40 AM 51174 0.08 55.1-146 Surr: DNOP **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB mg/Kg 3/23/2020 11:52:55 PM G67491 ND 3.1 1 Gasoline Range Organics (GRO) 3/23/2020 11:52:55 PM G67491 %Rec 93.7 66.6-105 1 Surr: BFB Analyst: NSB **EPA METHOD 8021B: VOLATILES** 3/18/2020 3:31:13 PM B67382 Benzene ND 0.016 mg/Kg B67382 ND 0.031 mg/Kg 1 3/18/2020 3:31:13 PM Toluene B67382 ND 0.031 mg/Kg 1 3/18/2020 3:31:13 PM Ethylbenzene ND 0.062 mg/Kg 1 3/18/2020 3:31:13 PM B67382 Xylenes, Total 92.3 80-120 %Rec 3/18/2020 3:31:13 PM B67382 Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT: Project:	GHD Allison CQ Federal 10			L	ab C	Order: 20037	'96	
Lab ID:	2003796-017		C	ollection Date	: 3/1	7/2020 12:40:00 I	'Μ	
Client Sample	e ID: SW-22			Matrix	: M	EOH (SOIL)		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Bato	ch ID
EPA METHO	D 300.0: ANIONS					Ana	alyst: (	CJS
Chloride		270	60	mg/Kg	20	3/18/2020 11:42:38	3 AM (	51178
EPA METHO	D 8015D MOD: GASOLINE F	RANGE				Ana	alyst: .	JMR
	nge Organics (GRO)	ND	5.4	mg/Kg	1	3/18/2020 2:08:00	PM (	51131
Surr: BFB	, , , , , , , , , , , , , , , , , , ,	94.5	70-130	%Rec	1	3/18/2020 2:08:00	PM (	51131
ЕРА МЕТНО	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst: <b>F</b>	BRM
Diesel Range	e Organics (DRO)	ND	9.7	mg/Kg	1	3/18/2020 11:59:47	7 AM (	51174
•	nge Organics (MRO)	ND	48	mg/Kg	1	3/18/2020 11:59:47	7 AM -	51174
Surr: DNO	P	84.6	55.1-146	%Rec	1	3/18/2020 11:59:47	7 AM -	51174
EPA METHO	D 8260B: VOLATILES SHOR	RT LIST				Ana	alyst: ۰	JMR
Benzene		ND	0.027	mg/Kg	1	3/18/2020 2:08:00	PM (	51131
Toluene		ND	0.054	mg/Kg	1	3/18/2020 2:08:00	PM !	51131
Ethylbenzene	e	ND	0.054	mg/Kg	1	3/18/2020 2:08:00	PM !	51131
Xylenes, Tota	al	ND	0.11	mg/Kg	1	3/18/2020 2:08:00		51131
Surr: 1,2-E	Dichloroethane-d4	88.3	70-130	%Rec	1	3/18/2020 2:08:00		51131
Surr: 4-Bro	omofluorobenzene	96.8	70-130	%Rec	1	3/18/2020 2:08:00		51131
Surr: Dibro	omofluoromethane	95.1	70-130	%Rec	1	3/18/2020 2:08:00	PM !	51131

99.5

70-130

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D

Surr: Toluene-d8

- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit PQL % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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51131

3/18/2020 2:08:00 PM

Released to Imaging: 9/28/2021 2:48:22 PM

**Analytical Report** 

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT:

**GHD** 

Lab Order:

2003796

Project: Lab ID:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Allison CQ Federal 10

2003796-018

Collection Date: 3/17/2020 12:50:00 PM

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

3/18/2020 1:39:29 PM

51131

51131

51131

51131

51131

51131

Matrix: MEOH (SOIL)

Client Sample ID: SW-23N RL Qual Units DF Date Analyzed Result **Batch ID** Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 3/18/2020 11:55:02 AM 51178 530 60 mg/Kg Chloride Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/18/2020 1:39:29 PM 51131 4.7 mg/Kg ND Gasoline Range Organics (GRO) 3/18/2020 1:39:29 PM 51131 98.5 70-130 %Rec Surr: BFB Analyst: BRM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 9.7 mg/Kg 3/18/2020 12:21:47 PM 51174 ND Diesel Range Organics (DRO) 3/18/2020 12:21:47 PM 51174 ND 48 mg/Kg 1 Motor Oil Range Organics (MRO) 3/18/2020 12:21:47 PM 51174 80.9 55,1-146 %Rec 1 Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/18/2020 1:39:29 PM ND 0.023 mg/Kg 51131 Benzene 3/18/2020 1:39:29 PM 51131

ND

ND

ND

89.6

96.9

95.0

101

0.047

0.047

0.093

70-130

70-130

70-130

70-130

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Lovel.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample oH Not In Range
- Reporting Limit RL.

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**Analytical Report** 

Lab Order: 2003796

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

2003796 CLIENT: **GHD** Lab Order:

Allison CQ Federal 10 Project:

Lab ID:	2003796-019		Collection Date: 3/17/2020 1:00:00 PM						
Client Sample ID:	SW-23S			Matrix	: M	EOH (SOIL)			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Bat	tch ID	
EPA METHOD 300	.0: ANIONS					Ana	alyst:	CJS	
Chloride		200	60	mg/Kg	20	3/18/2020 12:07:27	'PM	51178	
EPA METHOD 801	5D MOD: GASOLINE I	RANGE				Ana	alyst:	JMR	
Gasoline Range Or	ganics (GRO)	ND	4.3	mg/Kg	1	3/18/2020 1:10:50	PM	51131	
Surr: BFB	,	97.6	70-130	%Rec	1	3/18/2020 1:10:50	PM	51131	
EPA METHOD 801	5M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	BRM	
Diesel Range Organ	nics (DRO)	ND	9.0	mg/Kg	1	3/18/2020 12:43:53	B PM	51174	
Motor Oil Range Or	ganics (MRO)	ND	45	mg/Kg	1	3/18/2020 12:43:53	B PM	51174	
Surr; DNOP		75.2	55.1-146	%Rec	1	3/18/2020 12:43:53	3 PM	51174	
EPA METHOD 826	0B: VOLATILES SHO	RT LIST				Ana	alyst:	JMR	
Benzene		ND	0.022	mg/Kg	1	3/18/2020 1:10:50	PM	51131	
Toluene		ND	0.043	mg/Kg	1	3/18/2020 1:10:50	PM	51131	
Ethylbenzene		ND	0.043	mg/Kg	1	3/18/2020 1:10:50	PM	51131	
Xylenes, Total		ND	0.086	mg/Kg	1	3/18/2020 1:10:50	PM	51131	
Surr: 1,2-Dichloro	oethane-d4	85.7	70-130	%Rec	1	3/18/2020 1:10:50	PM	51131	
Surr: 4-Bromoflue	probenzene	94.9	70-130	%Rec	1	3/18/2020 1:10:50	PM	51131	
Surr: Dibromofluo	oromethane	97.1	70-130	%Rec	1	3/18/2020 1:10:50	PM	51131	
Surr: Toluene-d8		102	70-130	%Rec	1	3/18/2020 1:10:50	PM	51131	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/24/2020

2003796 CLIENT: **GHD** Lab Order:

Allison CQ Federal 10 Project:

Lab ID:	2003796-020		Collection Date: 3/17/2020 1:10:00 PM						
Client Sample ID:	SW-26			Matrix	: M	EOH (SOIL)			
Analyses	•	Result	RL	Qual Units	DF	Date Analyzed	Batch	ID	
EPA METHOD 300	.0: ANIONS					Ana	alyst: CJ	IS	
Chloride		400	60	mg/Kg	20	3/18/2020 12:19:5	2 PM 51	178	
EPA METHOD 801	5D MOD: GASOLINE	RANGE				Ana	alyst: JN	/IR	
Gasoline Range Org	ganics (GRO)	ND	4.4	mg/Kg	1	3/18/2020 12:42:24	4 PM 51	131	
Surr: BFB	, ,	99.8	70-130	%Rec	1	3/18/2020 12:42:24	4 PM 51	131	
EPA METHOD 801	5M/D: DIESEL RANGI	ORGANICS				Ana	alyst: BF	RM	
Diesel Range Organ	nics (DRO)	ND	9.4	mg/Kg	1	3/18/2020 1:05:49	PM 51	174	
Motor Oil Range Or	ganics (MRO)	ND	47	mg/Kg	1	3/18/2020 1:05:49	PM 51	174	
Surr: DNOP		82.8	55.1-146	%Rec	1	3/18/2020 1:05:49	PM 51	174	
EPA METHOD 826	0B: VOLATILES SHO	RT LIST				Ana	alyst: JN	ľR	
Benzene		ND	0.022	mg/Kg	1	3/18/2020 12:42:2	4 PM 51	131	
Toluene		ND	0.044	mg/Kg	1	3/18/2020 12:42:2	4 PM 51	131	
Ethylbenzene		ND	0.044	mg/Kg	1	3/18/2020 12:42:2	1 PM 51	131	
Xylenes, Total		ND	0.087	mg/Kg	1	3/18/2020 12:42:2	4 PM 51	131	
Surr: 1,2-Dichloro	ethane-d4	88.5	70-130	%Rec	1	3/18/2020 12:42:2	4 PM 51	131	
Surr: 4-Bromofluo	orobenzene	100	70-130	%Rec	1	3/18/2020 12:42:2	4 PM 51	131	
Surr: Dibromofluo	oromethane	97.6	70-130	%Rec	1	3/18/2020 12:42:2	4 PM 51	131	
Surr: Toluene-d8		102	70-130	%Rec	1	3/18/2020 12:42:2	4 PM 51	131	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Lab Order: 2003796

Date Reported: 3/24/2020

3/18/2020 12:13:46 PM 51131

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2003796

Project: Allison CQ Federal 10

2003796-021 Collection Date: 3/17/2020 1:20:00 PM Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-32 RL Qual Units DF Date Analyzed **Batch ID** Result Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS 850 60 mg/Kg 3/18/2020 12:32:17 PM 51178 20 Chloride **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR 3/18/2020 12:13:46 PM 51131 Gasoline Range Organics (GRO) ND 5.1 mg/Kg 1 3/18/2020 12:13:46 PM 51131 Surr: BFB 98.0 70-130 %Rec Analyst: CLP EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 3/18/2020 10:55:41 AM 51175 ND 10 mg/Kg Diesel Range Organics (DRO) 1 3/18/2020 10:55:41 AM 51175 ND 50 mg/Kg 1 Motor Oil Range Organics (MRO) 3/18/2020 10:55:41 AM 51175 1 94.3 55.1-146 %Rec Surr: DNOP **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR

ND

ND

ND

ND

92.5

96.2

99.9

101

0.026

0.051

0.051

0.10

70-130 70-130

70-130

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Lovel.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT:

**GHD** 

Lab Order:

2003796

Project:

Allison CQ Federal 10

Lab ID:

2003796-022

Collection Date: 3/17/2020 1:30:00 PM

Matrix: MEOH (SOIL) Client Sample ID: SW-24A RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 3/18/2020 12:44:42 PM 51178 160 60 mg/Kg 20 Chloride **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR 3/18/2020 11:45:05 AM 51131 Gasoline Range Organics (GRO) ND 4.1 mg/Kg 3/18/2020 11:45:05 AM 51131 Surr: BFB 95.6 70-130 %Rec Analyst: CLP EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 3/18/2020 11:19:20 AM 51175 9.9 mg/Kg ND Diesel Range Organics (DRO) 3/18/2020 11:19:20 AM 51175 ND 49 mg/Kg 1 Motor Oil Range Organics (MRO) 3/18/2020 11:19:20 AM 51175 97.8 %Rec Surr: DNOP 55.1-146 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR 3/18/2020 11:45:05 AM 51131 ND 0.020 mg/Kg Benzene 3/18/2020 11:45:05 AM 51131 mg/Kg 0.041 1 Toluene ND 3/18/2020 11:45:05 AM 51131 ND 0.041 mg/Kg Ethylbenzene 3/18/2020 11:45:05 AM 51131 ND 0.081 mg/Kg 1 Xylenes, Total %Rec 3/18/2020 11:45:05 AM 51131 Surr: 1,2-Dichloroethane-d4 90.6 70-130 70-130 %Rec 3/18/2020 11:45:05 AM 51131 Surr: 4-Bromofluorobenzene 96.1 3/18/2020 11:45:05 AM 51131 95.8 70-130 %Rec 1 Surr: Dibromofluoromethane 3/18/2020 11:45:05 AM 51131 99.9 70-130 %Rec 1 Surr: Toluene-d8

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 9/28/2021 2:48:22 PM

**Analytical Report** 

Lab Order: 2003796

Date Reported: 3/24/2020

3/18/2020 11:16:28 AM 51131

# Hall Environmental Analysis Laboratory, Inc.

**GHD** 2003796 CLIENT: Lab Order: Allison CQ Federal 10 Project: Collection Date: 3/17/2020 1:40:00 PM 2003796-023 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-25A RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 360 60 mg/Kg 3/18/2020 12:57:06 PM 51178 20 Chloride **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR mg/Kg 3/18/2020 11:16:28 AM 51131 Gasoline Range Organics (GRO) ND 4.4 1 3/18/2020 11:16:28 AM 51131 97.6 70-130 %Rec Surr: BFB Analyst: CLP EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 3/18/2020 11:42:59 AM 51175 mg/Kg Diesel Range Organics (DRO) ND 9.3 1 mg/Kg 3/18/2020 11:42:59 AM 51175 Motor Oil Range Organics (MRO) ND 47 1 3/18/2020 11:42:59 AM 51175 97.9 55.1-146 %Rec Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/18/2020 11:16:28 AM 51131 0.022 mg/Kg Benzene ND 1 3/18/2020 11:16:28 AM 51131 Toluene ND 0.044 mg/Kg 3/18/2020 11:16:28 AM 51131 Ethylbenzene ND 0.044 mg/Kg 3/18/2020 11:16:28 AM 51131 Xylenes, Total ND 0.089 mg/Kg 3/18/2020 11:16:28 AM 51131 Surr: 1,2-Dichloroethane-d4 93.2 70-130 %Rec 3/18/2020 11:16:28 AM 51131 96.9 70-130 %Rec Surr: 4-Bromofluorobenzene 70-130 %Rec 3/18/2020 11:16:28 AM 51131 Surr: Dibromofluoromethane 94.7

70-130

105

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Released to Imaging: 9/28/2021 2:48:22 PM

**Analytical Report** 

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

CLIENT:

**GHD** 

Lab Order:

2003796

Project:

Allison CQ Federal 10

Lab ID:

2003796-024

Collection Date: 3/17/2020 1:50:00 PM

Client Sample ID: SW-27A Matrix: MEOH (SOIL)

Chent Sample 1D: SW-2/A		MANIA. MISOII (BOIL)						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300.0: ANIONS						Anal	yst: CJS	
Chloride	240	60		mg/Kg	20	3/18/2020 1:34:19 F	M 51178	
EPA METHOD 8015D MOD: GASOLINE RANGE						Anal	yst: JMR	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/18/2020 10:47:56	AM 51131	
Surr: BFB	100	70-130		%Rec	5	3/18/2020 10:47:56	AM 51131	
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Anal	yst: CLP	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/18/2020 12:06:46	PM 51175	
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2020 12:06:46	PM 51175	
Surr: DNOP	98.0	55.1-146		%Rec	1	3/18/2020 12:06:46	PM 51175	
EPA METHOD 8260B: VOLATILES SHORT LIST						Anal	yst: <b>JMR</b>	
Benzene	ND	0.12		mg/Kg	5	3/18/2020 10:47:56	AM 51131	
Toluene	ND	0.24		mg/Kg	5	3/18/2020 10:47:56	AM 51131	
Ethylbenzene	ND	0.24		mg/Kg	5	3/18/2020 10:47:56	AM 51131	
Xylenes, Total	ND	0.49		mg/Kg	5	3/18/2020 10:47:56	AM 51131	
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	5	3/18/2020 10:47:56	AM 51131	
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	5	3/18/2020 10:47:56	AM 51131	
Surr: Dibromofluoromethane	94.9	70-130		%Rec	5	3/18/2020 10:47:56	AM 51131	
Surr: Toluene-d8	101	70-130		%Rec	5	3/18/2020 10:47:56	AM 51131	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

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Lab Order: 2003796

Date Reported: 3/24/2020

3/18/2020 10:19:31 AM 51131

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** Lab Order: 2003796

Allison CQ Federal 10 Project:

Collection Date: 3/17/2020 2:30:00 PM 2003796-025 Lab ID:

Matrix: MEOH (SOIL) Client Sample ID: 31A RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** 3/18/2020 1:46:44 PM 51178 ND 60 mg/Kg 20 Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/18/2020 10:19:31 AM 51131 ND 3,6 mg/Kg Gasoline Range Organics (GRO) 96.6 70-130 %Rec 3/18/2020 10:19:31 AM 51131 Surr: BFB Analyst: CLP **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 3/18/2020 12:30:34 PM 51175 Diesel Range Organics (DRO) ND 9.6 mg/Kg 3/18/2020 12:30:34 PM 51175 ND 48 mg/Kg 1 Motor Oil Range Organics (MRO) 3/18/2020 12:30:34 PM 51175 %Rec Surr: DNOP 94.3 55.1-146 Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/18/2020 10:19:31 AM 51131 Benzene ND 0.018 mg/Kg 1 3/18/2020 10:19:31 AM 51131 Toluene ND 0.036 mg/Kg 3/18/2020 10:19:31 AM 51131 ND 0.036 mg/Kg Ethylbenzene ND 0.071 mg/Kg 3/18/2020 10:19:31 AM 51131 Xylenes, Total 91.4 70-130 %Rec 3/18/2020 10:19:31 AM 51131 Surr: 1,2-Dichloroethane-d4 96.2 70-130 %Rec 3/18/2020 10:19:31 AM 51131 Surr: 4-Bromofluorobenzene 3/18/2020 10:19:31 AM 51131 94.3 70-130 %Rec Surr: Dibromofluoromethane

101

70-130

%Rec

Refer to the OC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL. % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Lab Order: 2003796

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

Lab Order: 2003796 CLIENT: **GHD** 

Allison CQ Federal 10 Project:

Lab ID: 2003796-026

Collection Date: 3/17/2020 2:40:00 PM Matrix: MEOH (SOIL) Client Sample ID: 30A DF Date Analyzed **Batch ID** Result RL Qual Units Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS 3/18/2020 1:59:09 PM 51178 700 59 mg/Kg 20 Chloride Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/18/2020 9:51:06 AM 51131 ND 2.9 mg/Kg 1 Gasoline Range Organics (GRO) 3/18/2020 9:51:06 AM 51131 97.5 70-130 %Rec Surr: BFB Analyst: CLP **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 3/18/2020 12:54:21 PM 51175 ND 10 mg/Kg Diesel Range Organics (DRO) mg/Kg 1 3/18/2020 12:54:21 PM ND 50 Motor Oil Range Organics (MRO) 3/18/2020 12:54:21 PM 51175 89.7 55,1-146 %Rec Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/18/2020 9:51:06 AM 51131 ND 0.014 mg/Kg Benzene 3/18/2020 9:51:06 AM 51131 ND 0.029 mg/Kg 1 Toluene 3/18/2020 9:51:06 AM 51131 0.029 mg/Kg ND 1 Ethylbenzene 51131 ND 0.057 mg/Kg 3/18/2020 9:51:06 AM Xylenes, Total 3/18/2020 9:51:06 AM 51131 70-130 %Rec 92.1 Surr: 1,2-Dichloroethane-d4 51131 3/18/2020 9:51:06 AM 97.5 70-130 %Rec Surr: 4-Bromofluorobenzene 51131 96.4 70-130 %Rec 3/18/2020 9:51:06 AM Surr: Dibromofluoromethane 3/18/2020 9:51:06 AM 70-130 %Rec Surr: Toluene-d8 103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL, Reporting Limit

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

24-Mar-20

Client:

GHD

Project:	Allison CQ Federal 10								
Sample ID: MB-51	178 SampType:	mblk	Test	Code: El	PA Method	300.0: Anion	5		
Client ID: PBS	Batch ID:	51178	R	tunNo: 6	7387				
Prep Date: 3/18/	2020 Analysis Date:	3/18/2020	8	eqNo: 2	325289	Units: mg/K	g		
Analyte Chloride	Result PQ ND 1	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LCS-5	1178 SampType:	lcs	Tes	Code: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch ID:	51178	F	tunNo: 6	7387				
Prep Date: 3/18/	2020 Analysis Date:	3/18/2020	8	eqNo: 2	325290	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14 1	.5 15.00	0	92.0	90	110			
Sample ID: MB-51	179 SampType:	mblk	Tes	Code: El	PA Method	300.0: Anion	S		
Client ID: PBS	Batch ID:	51179	F	tunNo: 6	7386				
Prep Date: 3/18/	2020 Analysis Date:	3/18/2020	8	eqNo: 2	325351	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1	.5							
Sample ID: LCS-5	1179 SampType:	lcs	Tes	Code: El	PA Method	300.0: Anion	S		
Client ID: LCSS	Batch ID:	51179	F	lunNo: 6	7386				
Prep Date: 3/18/	2020 Analysis Date:	3/18/2020	8	eqNo: 2	325353	Units: mg/K	g		

PQL SPK value SPK Ref Val %REC LowLimit

0

1.5

15.00

92.7

# Qualifiers:

Analyte

Chloride

- Value exceeds Maximum Contaminant Level.
- O Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

%RPD

HighLimit

90

110

**RPDLimit** 

Qual

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

24-Mar-20

Client:

**GHD** 

Project: Allison C	CQ Federal 10	
Sample ID: LCS-51086	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 51086 RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020 SeqNo: 2320643 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	5.2 5.000 105 55.1 146	
Sample ID: MB-51086	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 51086 RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020 SeqNo: 2320644 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	11 10.00 109 55.1 146	
Sample ID: LCS-51100	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 51100 RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/17/2020 SeqNo: 2321410 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	4.2 5.000 84.7 55.1 146	
Sample ID: MB-51100	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 51100 RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/17/2020 SeqNo: 2321412 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr. DNOP	9.0 10.00 90.4 55.1 146	
Sample ID: LCS-51174	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 51174 RunNo: 67313	
Prep Date: 3/18/2020	Analysis Date: 3/18/2020 SeqNo: 2323401 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	45 10 50.00 0 89.9 70 130	
Surr: DNOP	3.9 5.000 78.9 55.1 146	
Sample ID: MB-51174	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 51174 RunNo: 67313	
Prep Date: 3/18/2020	Analysis Date: 3/18/2020 SeqNo: 2323402 Units: mg/Kg	

### Qualifiers:

Surr: DNOP

Analyte

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix

- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Practical Quantitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

89.4

%REC LowLimit

55.1

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

SPK value SPK Ref Val

10.00

PQL

10

50

Result

ND

ND

8.9

Page 23 of 29

**RPDLimit** 

Qual

%RPD

HighLimit

146

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

24-Mar-20

Client: GHD Project: Allison	CQ Federal 10							And the second s
Sample ID: LCS-51175	SampType: L	.cs	Tes	tCode: EPA Meth	od 8015M/D; Die	sel Rang	e Organics	
Client ID: LCSS	Batch ID: 8	1175	F	RunNo: 67371				
Prep Date: 3/18/2020	Analysis Date:	3/18/2020	5	SeqNo: <b>2323403</b>	Units: mg/K	g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	44 1 4.3	0 50.00 5.000	0	87.3 7 86.2 55	70 130 5.1 146		······································	
Sample ID: MB-51175	SampType: I	//BLK	Tes	Code: EPA Meth	od 8015M/D; Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 8	1175	F	RunNo: 67371				
Prep Date: 3/18/2020	Analysis Date:	3/18/2020	5	SeqNo: <b>2323405</b>	Units: mg/K	g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		0						
Motor Oil Range Organics (MRO)	* *	0						
Surr: DNOP	9.3	10.00		92.7 55	.1 146			
Sample ID: 2003796-001AMS	SampType: I	ЛS	Tes	tCode: EPA Meth	od 8015M/D: Die	sel Rang	e Organics	
Client ID: SW-1A	Batch ID: 8	51174	F	RunNo: 67371				
Prep Date: 3/18/2020	Analysis Date:	3/18/2020	5	SeqNo: 2324936	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 8.	9 44.33	0	90.8 47				
Surr: DNOP	4.1	4.433		92.0 55	146			
Sample ID: 2003796-001AMS	SD SampType: I	/ISD	Tes	tCode: EPA Meth	od 8015M/D; Die	sel Rang	e Organics	
Client ID: SW-1A	Batch ID: 8	51174	F	RunNo: 67371				
Prep Date: 3/18/2020	Analysis Date:	3/18/2020	5	SeqNo: 2324938	Units: mg/K	g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43 9.		0	89.5 47		5.43	43.4	
Surr: DNOP	4.3	4.748		90.5 55	5,1 146	0	0	
Sample ID: MB-51159	SampType: I	<b>IBLK</b>	Tes	tCode: EPA Meth	od 8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 4	51159	F	RunNo: <b>67371</b>				
Prep Date: 3/17/2020	Analysis Date:	3/18/2020	(	SeqNo: <b>2324944</b>	Units: %Red	;		
Analyte	Result PQI	. SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5	10.00		94.9 55	i.1 146			
Sample ID: LCS-51159	SampType: I	.cs	Tes	tCode: EPA Meth	od 8015M/D: Die	sel Rang	e Organics	

# Qualifiers:

Analyte

Client ID: LCSS

Prep Date: 3/17/2020

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Batch ID: 51159

Analysis Date: 3/18/2020

Result

Analyte detected in the associated Method Blank

RunNo: 67371

SeqNo: 2324945

Units: %Rec

%RPD

HighLimit

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

Reporting Limit

Page 24 of 29

**RPDLimit** 

Qual

# **OC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003796

24-Mar-20

Client:

**GHD** 

Project:

Allison CQ Federal 10

Sample ID: LCS-51159

SampType: LCS Batch ID: 51159 TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

RunNo: 67371

Prep Date: 3/17/2020 Analysis Date: 3/18/2020

Units: %Rec

SeqNo: 2324945

Analyle

5,000

5.000

Qual

Result 4.6 SPK value SPK Ref Val

%REC LowLimit HighLimit

Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

**RPDLimit** 

Sample ID: LCS-51201 Client ID: LCSS

RunNo: 67313

92.6

Prep Date: 3/18/2020

Batch ID: 51201

SeqNo: 2326279

Units: %Rec HighLimit

Analyte

Analysis Date: 3/20/2020

Result

SPK value SPK Ref Val %REC

LowLimit

%RPD **RPDLImit** 

Surr: DNOP

3.9

77.7 55.1

Qual

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

Client ID: PBS

Sample ID: MB-51201

Prep Date: 3/18/2020

Batch ID: 51201

**PQL** 

RunNo: 67313 SeqNo: 2326281

Units: %Rec

146

**RPDLimit** 

Analysis Date: 3/20/2020 PQL

%REC SPK value SPK Ref Val

LowLimit

55.1

%RPD HighLimit

Qual

Sum: DNOP

8.6

Result

10.00

86.0

146

## Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Not Detected at the Reporting Limit Practical Quanitative Limit
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Reporting Linut

Sample pH Not In Range

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

24-Mar-20

Client: G	HD										
Project: A	llison CQ	Federal	10								
Sample ID: mb1		SampTy	/pe: ME	BLK	Tes	Code: EF	PA Method	8015D: Gaso	oline Rang	9	***************************************
Client ID: PBS		Batch	ID: G6	7491	F	RunNo: 6	7491				
Prep Date:	Ar	nalysis Da	ate: 3/	23/2020	8	SeqNo: 2	330037	Units: mg/H	(g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (C Surr. BFB	GRO)	ND 930	5.0	1000		93.3	66.6	105	, -y.,		
Sample ID: 2.5ug gro	lcs	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	9	
Client ID: LCSS		Batch	ID: G6	7491	F	RunNo: 6	7491				
Prep Date:	Ar	nalysis Da	ate: 3/	23/2020	5	SeqNo: 2	330038	Units: mg/F	(g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (C	GRO)	21	5.0	25.00	0	83.5	80	120			
Surr: BFB		1000		1000		105	66.6	105			
Sample ID: 2003796-0	002ams	SampTy	/pe: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: SW-2		Batch	ID: G6	7491	F	RunNo: 6	7491				
Prep Date:	Ar	nalysis Da	ate: 3/	23/2020	5	SeqNo: 2	330042	Units: mg/h	<b>(</b> g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (C	GRO)	20	4.6	23.04	0	87.0	69.1	142			
Surr: BFB		970		921.7		105	66.6	105			S
Sample ID: 2003796-0	002amsd	SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: SW-2		Batch	ID: G6	7491	F	RunNo: 6	7491				
Prep Date:	Ar	nalysis Da	ate: 3/	23/2020	5	SeqNo: 2	330043	Units: mg/h	<b>(</b> g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (C	GRO)	29	4.6	23.04	0	125	69.1	142	35.5	20	R
Surr: BFB		1100		921.7		114	66.6	105	0	0	S

# Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit

Page 26 of 29

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003796** 

24-Mar-20

Client:

GHD

Project:

Allison CQ Federal 10

Sample ID: mb1	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	h ID: <b>B</b> 6	7382	F	RunNo: 6	7382				
Prep Date:	Analysis E	Date: 3/	18/2020	8	SeqNo: 2	324681	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	80	120			

Sample ID: 100ng btex Ics	Samp <sup>-</sup>	Type: LC	S	Tes						
Client ID: LCSS	Batc	h ID: B6	7382	F	RunNo: 6					
Prep Date:	Analysis [	Date: 3/	18/2020	8	SegNo: 2	324682	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1,000	0	81.7	80	120			
Toluene	0.83	0.050	1.000	0	83.4	80	120			
Ethylbenzene	0.84	0.050	1.000	0	83.7	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	80	120			

Sample ID: 2003796-001ams	Samp1	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	illes		
Client ID: SW-1A	Batch	1 ID: B6	7382	F	RunNo: 6	7382				
Prep Date:	Analysis E	ate: 3/	18/2020	8	SeqNo: 2	324683	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	78.5	119			
Toluene	0.92	0.050	1.000	0.01223	90.5	75.7	123			
Ethylbenzene	0.91	0.050	1.000	0	90.6	74.3	126			
Xylenes, Total	2,7	0.10	3.000	0	91.3	72.9	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			

Sample ID: 2003796-001amsd	msd SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: SW-1A	Batch	ID: <b>B6</b>	7382	R						
Prep Date:	Analysis Date: 3/18/2020 SeqNo: 2324684 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.022	0,8795	0	130	78.5	119	24.0	20	RS
Toluene	1.2	0.044	0.8795	0.01223	132	75.7	123	24.8	20	RS
Ethylbenzene	1,2	0.044	0.8795	0	136	74.3	126	27.3	20	RS
Xylenes, Total	3.6	0.088	2.639	0	138	72.9	130	28.1	20	RS
Surr: 4-Bromofluorobenzene	0.83		0.8795		94.9	80	120	0	0	

### Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

24-Mar-20

Client:

GHD

Project:

Allison CO Federal 10

Project: Allison	CQ rederal									<del></del>
Sample ID: Ics-51131	Sampil	ype: LC	S	Tes	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batcl	n ID: 51'	131	F	tunNo: 6	7359				
Prep Date: 3/16/2020	Analysis D	Date: 3/	18/2020	S	SeqNo: 2:	324140	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	70	130			
Toluene	1.1	0.050	1.000	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.4	70	130			
Surr: Dibromofluoromethane	0.46		0,5000		92.8	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130	***		
Sample ID: mb-51131	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B; Volat	iles Short	List	
Sample ID: mb-51131 Client ID: PBS	•	Гуре: МЕ h ID: <i>51</i> 1			tGode: El		8260B; Volat	iles Short	List	
•	•	h ID: 51	131	F		7359	8260B; Volat		List	
Client ID: PBS	Batc	h ID: 51	131 18/2020	F	RunNo: 6	7359			List RPDLimit	Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte	Batci Analysis D	h ID: 51 <sup>,</sup> Date: 3/	131 18/2020	F	RunNo: 6: SeqNo: 2:	7359 324141	Units: mg/K	(g		Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte Benzene	Batci Analysis D Result	h ID: <b>51</b> <sup>1</sup> Date: <b>3</b> /	131 18/2020	F	RunNo: 6: SeqNo: 2:	7359 324141	Units: mg/K	(g		Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte Benzene Toluene	Batci Analysis I Result ND	h ID: <b>51</b> <sup>2</sup> Date: <b>3</b> / PQL 0.025	131 18/2020	F	RunNo: 6: SeqNo: 2:	7359 324141	Units: mg/K	(g		Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte Benzene Toluene Ethylbenzene	Batci Analysis I Result ND ND	PQL 0.025 0.050	131 18/2020	F	RunNo: 6: SeqNo: 2: %REC	7359 324141 LowLimit	Units: mg/K HighLimit	(g		Qual
Client ID: PBS Prep Date: 3/16/2020	Batc Analysis I Result ND ND ND	PQL 0.025 0.050	131 18/2020	F	RunNo: 6: SeqNo: 2:	7359 324141	Units: mg/K HighLimit	(g		Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batci Analysis I Result ND ND ND ND	PQL 0.025 0.050	131 18/2020 SPK value	F	RunNo: 6: SeqNo: 2: %REC	7359 324141 LowLimit 70 70	Units: mg/K HighLimit 130 130	(g		Qual
Client ID: PBS Prep Date: 3/16/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batci Analysis I Result ND ND ND ND ND	PQL 0.025 0.050	131 18/2020 SPK value 0.5000	F	RunNo: 6: SeqNo: 2: %REC 91.4	7359 324141 LowLimit 70	Units: mg/K HighLimit	(g		Qual

# Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Practical Quanitative Limit
- - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit

Page 28 of 29

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003796

%RPD

**RPDLimit** 

Qual

24-Mar-20

Client:

GHD

Project:

Allison CQ Federal 10

Sample ID: Ics-51131	SampT	ype: LC	S	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 51131			RunNo: 67359							
Prep Date: 3/16/2020	Analysis D	ate: 3/	18/2020	8	SeqNo: 2324173			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.6	70	130				
Surr: BFB	500		500,0		100	70	130				
Sample ID: mb-51131	SampT	ype: ME	зLК	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: PBS	Batch	1D: 51	131	F	RunNo: 6	7359					
Prep Date: 3/16/2020	Analysis D	Analysis Date: 3/18/2020			SeqNo: 2324174 Units: mg/Kg						

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Gasoline Range Organics (GRO)	ND	5.0					
Sun: BFB	490		500.0		97.9	70	130

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	GHD	Work Order Numb	per: 2003796		RoptNo:	1
Received By:	Isaiah Ortiz	3/18/2020 8:25:00 A	<b>\M</b>	I., 07	4	
Completed By:	Isalah Ortiz	3/18/2020 8:28:03 /	AM .	1,07	4	
Reviewed By:	YG 31181	10		·		
Chain of Cus		.1-1-0	Yes 🗹	No 🗀	Not Present	
	ustody sufficiently comp	DIETO?		140	Not Present [_]	
2. How was the	sample delivered?		Courier			
<u>Log In</u> 3. Was an attern	pt made to cool the sai	mples?	Yes 🔽	No 🗆	NA 🗆	
4. Were all samp	les received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6, Sufficient sam	ple volume for indicated	d test(s)?	Yes 🔽	No 🗆		
7. Are samples (e	except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
8. Was preservat	ive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial with headspa	ce <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
	nple containers receive		Yes	No 🗹	# af annual and	anasanasanum ( m. mummi ta ar us martura utanatana terutahan kenalahan kenalahan kenalahan kenalahan kenalahan La A
	rk match bottle labels?		Yes 🗹		# of preserved bottles checked for pH:	>12 unless noted)
	ncies on chain of custo orrectly identified on Cl		Yes 🗹	No □	Adjusted?	- 12 dilieda llotody
	analyses were request		Yes 🗹	No 🗆		Homenstall because
14.Were all holdin	ng times able to be met estomer for authorizatio	?	Yes 🗹	No □ [′	Checked by:	DAD 3/18/2
,		115.7				
	ing (If applicable) Ilfied of all discrepancie	es with this order?	Yes 🗌	No 🗆	NA 🗹	
Person I	Notified:	Date:				
By Who		Via:	eMall P	hone Fax	In Person	
Regardir	***	taring and the contract of the			······································	
<u> </u>	structions:			and the state of t		
16. Additional ren						
17. <u>Cooler Inforr</u> Cooler No 1	nation Temp °C Condition 3.8 Good	on Seal Intact Seal No Not Present	Seal Date	Signed By		
		were the cast want was core a strain	475ma_rrunm	<u> </u>	and the same of th	<u> </u>

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		<b>)</b>	Albuquerque, NM 87109	505-345-4107				(		-ime8) 0728								- PACES OF					4 6 18		
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			490	<u> </u>						ITM + X3T8											ļ		Remarks:	7	
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Time:	i Çi Rush				6150121	ager:	F Wa	John Ge	perature 2	Preservative Type												10	M		
Turn-Around	☐ Standard	Project Name:	1 Allison	Project #:	1,200	Project Manager:	子が	Sampler:	Sample Temperature: 344746	Container Type and #	42	s.viiavy				, <del></del>		**********				A	Received by:	Received by:	2.6
Chain-of-Custody Record				NO CHO. COM	377-3920	Walker @ GHD, an	□ Level 4 (Full Validation)			Sample Request ID	5w-1A	2-mS	Sw-3	S. 2.3.	SW-5A	Swork	SW-7	S - 515	SE-3	SW-10	SW-16	SW-17		, , , , , , , , , , , , , , , , , , ,	
-of-Cus	CHO			glenn. Quinney	505.	Seft.	) )	□ Other		Matrix	5	V,	<b>ζ</b> )	57	8	S	<b>V</b> )	S	<b>γ</b>	S	Λ	<b>ار</b>	Relinquished by	Relinguished by:	
ja ja			Mailing Address:	leni.	'بن	Fax#:	ackage: lard	tation \P	(Type)	Time	1000	1010	02 a l	1030	1040	1050	1100	1110	1170	1130	운 =	11.50	Time:	Time:	ري ري
U	Client:		Mailing,	CC 0		email or Fax#;	QA/QC Package: □ Standard	Accreditation	□ EDD (Type)	Date	3-17-20	محجبنوم							Managha!	*tones			3 fe 2	Date:	8

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

	HALL ENVIRONMENTAL		www.hallenvironmental.com	Tol ENE DAE 207E	Analysis Reguest	(A)	MS) (SM	) PR( 1) 1) 10 SII 10 SII	07 181 140 1,60 1,60	(G)	TEX + MTI 3TEX + MTI 1PH 8015B 1PH (Metho EDB (Metho EDB (Metho EDB (Metho EDB (Metho Metho		5	\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	9		500	5	0		7	W	2	Remarks:	158 St. 10-1	My Surfix
Tum-Around Time:	□ Standard □ (Rush 24k)	<u>ان</u>	Allson C. G. Godgas HD	Project #:	12059	Project Manager:	Toff Walker		<b>™</b> Yes	Sample Temperature: 34+0464 38	Container Preservative HEAL No.	42 - 013	5.001	- 018	910	7.00	810-	610 -	020 -	120 -	720 -	- 073	20 - 19 2	Date T	11/ 3/11/20	Received yr. M Date Time
Chain-of-Custody Record	9				505-377-3420	7 eff. Weller @ @ 110,100					Matrix Sample Request ID	S Sw-18	1 Sw-19	02-ms	12-ps	SW-22	S6-23N	Sw-235	Sc - 26	SW-32	Sw-244	1 5W- 2SA	Sw - 27 A	, in the second		Relinquished by
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Air Bubbles (Y or N)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chair-or-Custody Record	I ulii-Alound lime:		
Client: (?)	Standard & Dies Cheek	HALL ENVIRONMENTAL	
	1,:	ANALYSIS LABORATORY	
Modina Address:	5	www.hallenvironmental.com	
Maining Address.	1 H/1,500 CK Hora/ 120	4901 Hawkins NE - Albuquerque, NM 87109	
Phone #: 505-377-3920	55021	Aralysis Raniest	*******
	Project Manager.	(V)	979 <b>/</b>
QA/QC Package: gienr. Grany & gladidon	<i>y</i> .	AM (8	
☐ Standard ☐ Level 4 (Full Validation)	Soft walked	\ bO <sup>†</sup> bO† work	
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□ NELAP □ Other	On Ice: Text III No	O5 .40 .81 .40 .82 .40 .70 .70	****
□ EDD (Type)	Sample Temperature: 34+0ch  ce   5, 6.15	(GK	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 24, 2020

Jeff Walker GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Allison CQ Federal 10

OrderNo.: 2003875

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/19/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Released to Imaging: 9/28/2021 2:48:22 PM

**Analytical Report** Lab Order: 2003875

Date Reported: 3/24/2020

3/19/2020 3:13:49 PM

51164

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51164

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51164

# Hall Environmental Analysis Laboratory, Inc.

2003875 **GHD** Lab Order: CLIENT:

Allison CQ Federal 10 Project:

Collection Date: 3/18/2020 8:15:00 AM 2003875-001 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-34A Result RL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 3/19/2020 12:05:56 PM 51212 60 75 mg/Kg Chloride Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/19/2020 3:13:49 PM R67428 mg/Kg ND 4.0 Gasoline Range Organics (GRO) 1 3/19/2020 3:13:49 PM R67428 101 70-130 %Rec Surr: BFB Analyst: BRM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** ND 9.7 mg/Kg 1 3/19/2020 9:58:43 AM 51210 Diesel Range Organics (DRO) 3/19/2020 9:58:43 AM 51210 ND 48 mg/Kg 1 Motor Oil Range Organics (MRO) 3/19/2020 9:58:43 AM 51210 86.9 55.1-146 %Rec 1 Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** ND 0.020 mg/Kg 1 3/19/2020 3:13:49 PM 51164 Benzene mg/Kg 3/19/2020 3:13:49 PM 51164 ND 0.040 Toluene

ND

ND

90.3

97.6

96.5

103

0.040

0.081

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL. Reporting Limit

Page 1 of 10

#### **Analytical Report**

Lab Order: 2003875

Date Reported: 3/24/2020

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** 

**GHD** 

Lab Order:

2003875

Project:

Allison CQ Federal 10

Collection Date: 3/18/2020 8:30:00 AM 2003875-002 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-33A Result RL Qual Units DF Date Analyzed Batch ID Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 60 3/19/2020 12:18:17 PM 51212 ND mg/Kg 20 Chloride Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/19/2020 3:42:26 PM R67428 ND mg/Kg Gasoline Range Organics (GRO) 4.5 3/19/2020 3:42:26 PM R67428 Surc: BFB 98.1 70-130 %Rec 1 Analyst: BRM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 3/19/2020 10:23:03 AM 51210 Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 3/19/2020 10:23:03 AM 51210 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 92.6 55.1-146 %Rec 1 3/19/2020 10:23:03 AM 51210 Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/19/2020 3:42:26 PM 51164 ND 0.023 mg/Kg Benzene ND 0.045 mg/Kg 3/19/2020 3:42:26 PM 51164 Toluene ND 0.045 mg/Kg 3/19/2020 3:42:26 PM 51164 1 Ethylbenzene mg/Kg 3/19/2020 3:42:26 PM 51164 0.090 Xylenes, Total ND 1 70-130 %Rec 3/19/2020 3:42:26 PM 51164 Surr: 1,2-Dichloroethane-d4 96.6 3/19/2020 3:42:26 PM %Rec 51164 70-130 Surr: 4-Bromofluorobenzene 97.5 3/19/2020 3:42:26 PM 51164 Surr: Dibromofluoromethane 99.8 70-130 %Rec 97.9 70-130 %Rec 3/19/2020 3:42:26 PM 51164 Surr: Toluene-d8

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

**Analytical Report** 

Lab Order: 2003875 Date Reported: 3/24/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** 2003875 Lab Order:

Project: Allison CQ Federal 10

Collection Date: 3/18/2020 8:40:00 AM 2003875-003 Lab ID: Matrix: MEOH (SOIL) Client Sample ID: SW-35B Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT 3/19/2020 12:30:37 PM 51212 530 60 Chloride mg/Kg Analyst: JMR **EPA METHOD 8015D MOD: GASOLINE RANGE** mg/Kg 3/19/2020 4:11:03 PM R67428 ND 4.9 Gasoline Range Organics (GRO) 70-130 1 3/19/2020 4:11:03 PM R67428 95.3 %Rec Surr: BFB Analyst: BRM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.5 mg/Kg 3/19/2020 9:54:42 AM 51210 1 3/19/2020 9:54:42 AM 51210 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/19/2020 9:54:42 AM 51210 85.8 55.1-146 %Rec 1 Surr: DNOP Analyst: JMR **EPA METHOD 8260B: VOLATILES SHORT LIST** ND 0.024 mg/Kg 1 3/19/2020 4:11:03 PM 51164 Benzene ND 0.049 mg/Kg 3/19/2020 4:11:03 PM 51164 Toluene 3/19/2020 4:11:03 PM 51164 Ethylbenzene ND 0.049 mg/Kg 3/19/2020 4:11:03 PM 51164 ND 0.098 mg/Kg Xylenes, Total 91.0 70-130 %Rec 3/19/2020 4:11:03 PM 51164 Surr: 1,2-Dichloroethane-d4 1 70-130 %Rec 3/19/2020 4:11:03 PM 51164 Surr: 4-Bromofluorobenzene 94,5 70-130 %Rec 3/19/2020 4:11:03 PM 51164 98.2 1 Surr: Dibromofluoromethane 51164 3/19/2020 4:11:03 PM Surr: Toluene-d8 101 70-130 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RI.

Page 3 of 10

**Analytical Report** 

Lab Order: 2003875

Date Reported: 3/24/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** Lab Order: 2003875 Project: Allison CQ Federal 10 2003875-004 Collection Date: 3/17/2020 2:00:00 PM Lab ID: Client Sample ID: SW-29B Matrix: MEOH (SOIL) Result RL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 110 60 3/19/2020 12:42:58 PM 51212 Chloride mg/Kg 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF G67429 3/19/2020 4:10:23 PM Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 Surr: BFB 96.3 70-130 %Rec 3/19/2020 4:10:23 PM G67429 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: BRM 3/19/2020 10:16:37 AM 51210 Diesel Range Organics (DRO) ND 9,7 mg/Kg 3/19/2020 10:16:37 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/19/2020 10:16:37 AM 51210 Surr: DNOP 87.0 55.1-146 %Rec Analyst: DJF **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/19/2020 4:10:23 PM ND 0.024 S67429 mg/Kg Benzene ND 0.047 mg/Kg 3/19/2020 4:10:23 PM S67429 Toluene ND 0.047 mg/Kg 3/19/2020 4:10:23 PM S67429 Ethylbenzene

ND

105

86.0

107

92.4

0.095

70-130

70-130

70-130

70-130

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

S67428

S67429 S67429

S67429

S67429

3/19/2020 4:10:23 PM

**Analytical Report** 

Lab Order: 2003875

Date Reported: 3/24/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** Lab Order: 2003875

Allison CQ Federal 10 Project:

Lab ID: 2003875-005

Client Sample ID: SW-28B

Collection Date: 3/17/2020 2:10:00 PM Matrix: MEOH (SOIL) Result RL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 3/19/2020 12:55:19 PM 51212 Chloride 390 60 mg/Kg Analyst: DJF **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/19/2020 3:40:57 PM G67429 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 3/19/2020 3:40:57 PM G6742§ Surr: BFB 98.3 70-130 %Rec 1 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: BRM 3/19/2020 10:38:35 AM 51210 Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 ND 3/19/2020 10:38:35 AM 51210 Motor Oil Range Organics (MRO) 47 mg/Kg 1 Surr: DNOP 86.5 55.1-146 %Rec 3/19/2020 10:38:35 AM 51210 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 0.024 mg/Kg 3/19/2020 3:40:57 PM S67429 Benzene ND 0.048 mg/Kg 3/19/2020 3:40:57 PM S67429 1 Toluene ND 3/19/2020 3:40:57 PM S67429 Ethylbenzene 0.048 mg/Kg 1 ND 0.096 mg/Kg 3/19/2020 3:40:57 PM S67429 Xylenes, Total 1 3/19/2020 3:40:57 PM S67429 Surr: 1,2-Dichloroethane-d4 106 70-130 %Rec 1 Surr: 4-Bromofluorobenzene 82.9 70-130 %Rec 3/19/2020 3:40:57 PM S67429 Surr: Dibromofluoromethane 106 70-130 %Rec 3/19/2020 3:40:57 PM \$67429 %Rec 3/19/2020 3:40:57 PM S67429 95.3 70-130 Surr: Toluene-d8

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 5 of 10

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2003875

24-Mar-20

Client:

GHD

Project:

Allison CQ Federal 10

Sample ID: MB-51212

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 51212

RunNo: 67421

Prep Date: 3/19/2020

Analysis Date: 3/19/2020

SeqNo: 2326742

Units: mg/Kg

HighLimit

%RPD

**RPDLimit** 

Qual

Analyte Chloride

PQL SPK value SPK Ref Val %REC LowLimit Result ND 1.5

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#:

2003875

24-Mar-20

Client:

GHD

Project: Alli	son CQ Federal 10	
Sample ID: LCS-51100	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321410 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Suir: DNOP	4.2 5.000	84.7 55.1 146
Sample ID: MB-51100	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321412 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.4 55.1 146
Sample ID: MB-51210	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51210	RunNo: 67410
Prep Date: 3/19/2020	Analysis Date: 3/19/2020	SeqNo: 2324926 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MR	O) ND 50 9.2 10.00	91.9 55.1 146
Surr: DNOP		01.0 00.1 170
Sample ID: LCS-51210	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51210	RunNo: 67410
Prep Date: 3/19/2020	Analysis Date: 3/19/2020	SeqNo: 2325199 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	43 10 50.00	
Surr: DNOP	4.4 5.000	
Sample ID: LCS-51201	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51201	RunNo: 67313
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2326279 Units: %Rec
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.9 5.000	77.7 55.1 146
Sample ID: MB-51201	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51201	RunNo: 67313
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2326281 Units: %Rec

#### Qualifiers:

Analyte

Sun: DNOP

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level,
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
  - % Recovery outside of range due to dilution or matrix

Result

8.6

**PQL** 

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits

%REC

86.0

LowLimit

55.1

HighLimit

146

Sample pH Not In Range Reporting Limit

SPK value SPK Ref Val

10.00

Page 7 of 10

**RPDLimit** 

Qual

%RPD

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003875

24-Mar-20

Client:

**GHD** 

Project:

Allison CQ Federal 10

Sample ID: mb1	•	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: PBS Prep Date:		atch ID: S67429 Is Date: 3/19/2020			RunNo: 67429 SegNo: 2326389		Units: mg/Kg			
1 Tep Bate.	7 Halyolo L	) (II)				020000	•	_		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.49		0.5000		98.1	70	130			

Sample ID: 100ng Ics	SampT	ype: LC	s	TestCode: EPA Method			l 8260B: Volatiles Short List			
Client ID: LCSS	Batch	1D: \$6	7429	RunNo: 67429						
Prep Date:	Analysis D	ate: 3/	19/2020	S	SeqNo: 2	326390	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.5	70	130			,
Toluene	0,95	0.050	1.000	0	94.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.4	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.2	70	130			

Sample ID: Ics-51164	Samp	Гуре: <b>LC</b>	S	Tes	(Code: El	A Method	8260B: Vola	tiles Short	List	
Client ID: LCSS Batch ID: 51164			164	RunNo: 67428						
Prep Date: 3/17/2020	Analysis [	Date: 3/	19/2020	SeqNo: 2326555			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	70	130	,		
Toluene	1.1	0.050	1.000	0	105	70	130			
Ethylbenzene	1.1	0.050	1.000	0	109	70	130			
Xylenes, Total	3.2	0.10	3.000	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94,1	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			

Sample ID: mb-51164	SampType: MBLK	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: PBS	Batch ID: 51164	RunNo: 67428		
Prep Date: 3/17/2020	Analysis Date: 3/20/2020	SeqNo: 2326556	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual

# Received by OCD: 9/27/2021 4:31:54 PM Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
  Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Client:

Released to Imaging: 9/28/2021 2:48:22 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003875

24-Mar-20

GH

Project: Allison CQ Federal 10

Sample ID: mb-51164	Samp	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: 51	164	RunNo: <b>67428</b> SeqNo: <b>2326556</b> U		Units: mg/Kg				
Prep Date: 3/17/2020	Analysis I	Date: 3/	20/2020							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								7
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	NĐ	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.8	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003875

24-Mar-20

1	7	i.,	 t:	

**GHD** 

A 1117 00 E-1---110

Project: Allison C	Q Federal	10	·				***************************************			
Sample ID: mb2	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	ID: G	37429	F	RunNo: 67429					
Prep Date:	Analysis D	ate: 3/	/20/2020	(	SeqNo: 2	326394	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 500	5.0	500.0		101	70	130			
Sample ID: 2.5ug gro lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch ID: G67429			F	RunNo: 6	7429				
Prep Date:	Analysis D	ate: 3	119/2020	Ş	SeqNo: 2	326395	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	23 510	5.0	25.00 500.0	0	93.4 102	70 70	130 130			
Sample ID: 2003875-004a ms	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	· · · · · · · · · · · · · · · · · · ·
Client ID: SW-29B	Batch	ID: G	37429	RunNo: 67429						
Prep Date:	Analysis D	ate: 3/	119/2020	SeqNo: 2326397 Unlts: mg/Kg			≺g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.74	0	95.7	70	130			
Surr: BFB	470		474.8		98.7	70	130			
Sample ID: 2003875-004a ms	d SampT	ype: Ms	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: SW-29B	Batch	ID: G	37429	F	RunNo: 6	7429				
Prep Date:	Analysis D	ate: 3/	19/2020		SeqNo: 2	326398	Units: mg/k	√g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.74	0	84.4	70	130	12.6	20	
Surr: BFB	460	**************************************	474.8		97.2	70	130	0	0	
Sample ID: Ics-51164	SampT	ype: LC	 :s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch ID: 51164			RunNo: 67428						
D. D. D. L. D. AMMIAAAA	A b - lo D	A b l D t 044010000			Sanklas A	200045	Unite: 0/ De			

Sample ID: Ics-51164	SampType: L	C8	Tes	tCode: El	PA Method	8015D Mod:	Gasoline l	Range	
Client ID: LCSS	Batch ID: 5	1164	F	RunNo: 6	7428				
Prep Date: 3/17/2020	Analysis Date: 3	/19/2020	9	SeqNo: 2	326645	Units: %Red	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490	500.0		97.3	70	130			

Sample ID: mb-51164	SampType: MBLK	TestCode: EPA Method	l 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: 51164	RunNo: 67428	
Prep Date: 3/17/2020	Analysis Date: 3/20/2020	SeqNo: 2326646	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	490 500.0	98.1 70	130

#### Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RL

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Released to Imaging: 9/28/2021 2:48:22 PM

	weosite; wi	w.nanenvironmenia	i,com	
Client Name: GHD	Work Order Nun	nber: 2003875		RcptNo: 1
Received By: Yazmine Garduno	3/19/2020 8:05:00	AM	Appair lefabet	
Completed By: Isalah Ortiz	3/19/2020 8:24:25		Appain left destrict	,
		AW	wiles king Coules	*
Reviewed By: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Chain of Custody				
1. Is Chain of Custody sufficiently con	plete?	Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
<u>Log In</u>				
3. Was an attempt made to cool the sa	amples?	Yes 🗸	No 🗆	NA 🗆
4. Were all samples received at a temp	perature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆	
6. Sufficient sample volume for indicate	ed test(s)?	Yes 🗹	No 🗆	
7. Are samples (except VOA and ONG		Yes 🗹	No 🗆	
8. Was preservative added to bottles?	, property programs	Yes 🗌	No 🗹	NA 🗆
9. Received at least 1 vial with headspa	ace <1/4" for AO VOA?	Yes 🗌	No 🗆	NA 🗹
Were any sample containers receive		Yes	No 🗹	100 (
	and the same of th			# of preserved bottles checked
1. Does paperwork match bottle labels		Yes 🗹		for pH:
(Note discrepancies on chain of cust		V	No 🗆	(<2 or >12 unless not
<ol><li>Are matrices correctly identified on C</li><li>Is it clear what analyses were reques</li></ol>	1.45 m 1.41 m	Yes ✓ Yes ✓	No □	
4. Were all holding times able to be me		Yes 🗹	No 🗆	Checked by: DAD 3/19/
(If no, notify customer for authorization		100 🖭		1, <u>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1</u>
pecial Handling (if applicable)				1
5. Was client notified of all discrepanci	es with this order?	Yes 🗌	No 🗆	NA 🗹
Person Notified:	Date:	Pro-insolvent desiglics	His of the state of	
By Whom:	Via:	eMail P	hone  Fax	In Person
Regarding: Client Instructions:	**************************************	Manustry and the Late of the second	*************	All and the state of the state
6. Additional remarks:				
7. Cooler Information  Cooler No.   Temp °C   Condition	on Seal Intact Seal No	Seal Date	Signed By	
1 2.1 Good	Not Present	. arawania d		
2 1.0 Good	Not Present	1.00		
D 1 01			-	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2003928

March 24, 2020

Jeff Walker GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Allison CQ Federal 10

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/20/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report** 

Lab Order: 2003928 Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT:

Project:

GHD

Allison CQ Federal 10

Lab Order:

2003928

Lab ID: 2	2003928-001		C	Collection Dat	e: 3/1	19/2020 9:00:00 A	M	
Client Sample ID: 5	SW-8A			Matri	x: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300.0	: ANIONS					Ana	alyst:	JMT
Chloride		530	60	mg/Kg	20	3/20/2020 11:11:5	5 AM	51239
EPA METHOD 8015	MOD: GASOLINE RAN	GE				Ana	alyst:	DJF
Gasoline Range Orga	nics (GRO)	ND	4.5	mg/Kg	1	3/20/2020 11:07:04	1 AM	51186
Surr: BFB		95.7	70-130	%Rec	1	3/20/2020 11:07:04	AM	51186
EPA METHOD 8015	M/D: DIESEL RANGE OF	RGANICS				Ana	alyst:	BRM
Diesel Range Organic	s (DRO)	ND	8.9	mg/Kg	1	3/20/2020 9:49:20	ΑM	51236
Motor Oil Range Orga	nics (MRO)	ND	44	mg/Kg	1	3/20/2020 9:49:20	MA	51236
Surr: DNOP		89.9	55.1-146	%Rec	1	3/20/2020 9:49:20	ΑM	51236
EPA METHOD 8260E	B: VOLATILES SHORT L	IST				Ana	alyst:	DJF
Benzene		ND	0.023	mg/Kg	1	3/20/2020 11:07:04	AM	51186
Toluene		ND	0.045	mg/Kg	1	3/20/2020 11:07:04	AM	51186
Ethylbenzene		ND	0.045	mg/Kg	1	3/20/2020 11:07:04	AM.	51186
Xylenes, Total		ND	0.090	mg/Kg	1	3/20/2020 11:07:04	AM	51186
Surr: 1,2-Dichloroet	hane-d4	105	70-130	%Rec	1	3/20/2020 11:07:04	I AM	51186
Surr: 4-Bromofluoro	benzene	87.6	70-130	%Rec	1	3/20/2020 11:07:04	AM	51186
Surr: Dibromofluoro	methane	105	70-130	%Rec	1	3/20/2020 11:07:04	I AM	51186
Surr: Toluene-d8		97.7	70-130	%Rec	1	3/20/2020 11:07:04	1 AM	51186

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit

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**Analytical Report** 

Lab Order: 2003928

Date Reported: 3/24/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: **GHD** Lab Order: 2003928

Allison CQ Federal 10 Project:

2003928-002 Collection Date: 3/19/2020 9:10:00 AM

Lab ID:	2003928-002		C	Collection Date	: 3/1	19/2020 9:10:00 A	M	
Client Sample ID:	SW-7A			Matrix	: SC	OIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	alyst:	JMT
Chloride		250	60	mg/Kg	20	3/20/2020 11:24:16	MA 6	51239
EPA METHOD 801	5D MOD: GASOLINE R	ANGE				Ana	alyst:	DJF
Gasoline Range Org	ganics (GRO)	ND	5.0	mg/Kg	1	3/20/2020 11:36:08	3 AM	51186
Surr: BFB		96.5	70-130	%Rec	1	3/20/2020 11:36:08	B AM	51186
EPA METHOD 801	5M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	BRM
Diesel Range Orgar	nics (DRO)	ND	9.4	mg/Kg	1	3/20/2020 10:13:10	MA C	51236
Motor Oil Range Or	ganics (MRO)	ND	47	mg/Kg	1	3/20/2020 10:13:10	MA C	51236
Surr: DNOP		90.0	55.1-146	%Rec	1	3/20/2020 10:13:10	MA C	51236
<b>EPA METHOD 826</b>	0B: VOLATILES SHOR	T LIST				Ana	alyst:	DJF
Benzene		ND	0.025	mg/Kg	1	3/20/2020 11:36:08	3 AM	51186
Toluene		ND	0.050	mg/Kg	1	3/20/2020 11:36:08	3 AM	51186
Ethylbenzene		ND	0.050	mg/Kg	1	3/20/2020 11:36:08	3 AM	51186
Xylenes, Total		ND	0.10	mg/Kg	1	3/20/2020 11:36:08	3 AM	51186
Surr: 1,2-Dichlord	ethane-d4	112	70-130	%Rec	1	3/20/2020 11:36:08	3 AM	51186
Surr: 4-Bromofluo	orobenzene	84.8	70-130	%Rec	1	3/20/2020 11:36:08		51186
Surr: Dibromofluo	promethane	111	70-130	%Rec	1	3/20/2020 11:36:08		51186
Surr: Toluene-d8		98.2	70-130	%Rec	1	3/20/2020 11:36:08	3 AM	51186

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 2 of 11

Analytical Report

Lab Order: 2003928

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/24/2020

2003928

Allison CQ Federal 10 Project: Lab ID: 2003928-003

**GHD** 

CLIENT:

Collection Date: 3/19/2020 9:20:00 AM

Lab Order:

Matrix: SOIL Client Sample ID: SW-2A **DF** Date Analyzed **Batch ID** Result RL Qual Units Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 3/20/2020 11:36:37 AM 51239 Chloride 240 60 mg/Kg 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF 3/20/2020 12:05:39 PM 51186 Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 3/20/2020 12:05:39 PM 51186 Surr: BFB 105 70-130 %Rec 1 Analyst: CLP **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 3/20/2020 9:56:56 AM 51236 Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 3/20/2020 9:56:56 AM 51236 ND 46 mg/Kg 1 Motor Oil Range Organics (MRO) 3/20/2020 9:56:56 AM 51236 %Rec 1 Surr: DNOP 96.9 55.1-146 Analyst: DJF **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/20/2020 12:05:39 PM 51186 Benzene ND 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 3/20/2020 12:05:39 PM 51186 3/20/2020 12:05:39 PM 51186 ND 0.046 mg/Kg 1 Ethylbenzene 3/20/2020 12:05:39 PM 51186 Xylenes, Total ND 0.092 mg/Kg 1 Surr: 1,2-Dichloroethane-d4 70-130 %Rec 3/20/2020 12:05:39 PM 51186 110 1 3/20/2020 12:05:39 PM 51186 89.1 70-130 %Rec Surr: 4-Bromofluorobenzene 1 3/20/2020 12:05:39 PM 51186 Surr: Dibromofluoromethane 108 70-130 %Rec 1 3/20/2020 12:05:39 PM 51186 Surr: Toluene-d8 102 70-130 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 3 of 11

**Analytical Report** 

Lab Order: 2003928

Date Reported: 3/24/2020

# Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2003928

**GHD** Project: Allison CQ Federal 10

**CLIENT:** 

Lab ID:	2003928-004		Col	lection Date	: 3/1	9/2020 9:30:00 A	M	
Client Sample ID:	SW-32A			Matrix	: SC	OIL		
Analyses		Result	RL C	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS					Ana	alyst:	JMT
Chloride		ND	59	mg/Kg	20	3/20/2020 11:48:58	3 AM	51239
EPA METHOD 801	5D MOD: GASOLINE RAN	GE				Ana	alyst:	DJF
Gasoline Range Org	ganics (GRO)	ND	4.0	mg/Kg	1	3/20/2020 12:35:17	PM	51186
Surr: BFB		102	70-130	%Rec	1	3/20/2020 12:35:17	PM	51186
EPA METHOD 801	5M/D; DIESEL RANGE OR	GANICS				Ana	alyst:	CLP
Diesel Range Organ	nics (DRO)	ND	9.4	mg/Kg	1	3/20/2020 10:20:26	MA 8	51236
Motor Oil Range Or	ganics (MRO)	ND	47	mg/Kg	1	3/20/2020 10:20:26	MA 8	51236
Surr: DNOP		95.4	55.1-146	%Rec	1	3/20/2020 10:20:26	MA 6	51236
EPA METHOD 826	0B: VOLATILES SHORT L	IST				Ana	alyst:	DJF
Benzene		ND	0.020	mg/Kg	1	3/20/2020 12:35:17	PM	51186
Toluene		ND	0.040	mg/Kg	1	3/20/2020 12:35:17	PM	51186
Ethylbenzene		ND	0.040	mg/Kg	1	3/20/2020 12:35:17	PM	51186
Xylenes, Total		ND	0.079	mg/Kg	1	3/20/2020 12:35:17	PM	51186
Surr: 1,2-Dichloro	ethane-d4	104	70-130	%Rec	1	3/20/2020 12:35:17	PM	51186
Surr: 4-Bromofluo	robenzene	89,9	70-130	%Rec	1	3/20/2020 12:35:17	PM	51186
Surr: Dibromofluc	romethane	101	70-130	%Rec	1	3/20/2020 12:35:17	PM	51186
Surr: Toluene-d8		98.7	70-130	%Rec	1	3/20/2020 12:35:17	PM	51186

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quantitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Linut

Analytical Report Lab Order: 2003928

Date Reported: 3/24/2020

3/20/2020 1:04:44 PM

51186

#### Hall Environmental Analysis Laboratory, Inc.

2003928 CLIENT: **GHD** Lab Order: Allison CQ Federal 10 Project: Collection Date: 3/19/2020 9:40:00 AM Lab ID: 2003928-005 Matrix: SOIL Client Sample ID: SW-30B DF Date Analyzed **Batch ID** RL Qual Units Result Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** 3/20/2020 12:01:19 PM 51239 ND 60 mg/Kg 20 Chloride Analyst: DJF **EPA METHOD 8015D MOD: GASOLINE RANGE** 3/20/2020 1:04:44 PM 51186 ND 4.8 mg/Kg Gasoline Range Organics (GRO) 3/20/2020 1:04:44 PM 1 51186 95.5 70-130 %Rec Surr: BFB Analyst: BRM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 3/20/2020 10:24:03 AM 51236 Diesel Range Organics (DRO) ND 10 mg/Kg 1 3/20/2020 10:24:03 AM 51236 ND 50 mg/Kg 1 Motor Oil Range Organics (MRO) 3/20/2020 10:24:03 AM 51236 %Rec 1 89.8 55.1-146 Surr: DNOP Analyst: DJF **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/20/2020 1:04:44 PM 51186 mg/Kg Benzene ND 0.024 1 51186 Toluene ND 0.048 mg/Kg 3/20/2020 1:04:44 PM 3/20/2020 1:04:44 PM 51186 ND 0.048 mg/Kg 1 Ethylbenzene mg/Kg 3/20/2020 1:04:44 PM 51186 1 ND 0.096 Xylenes, Total 70-130 %Rec 3/20/2020 1:04:44 PM 51186 Surr: 1,2-Dichloroethane-d4 110 1 3/20/2020 1:04:44 PM 51186 85.9 70-130 %Rec Surr: 4-Bromofluorobenzene 3/20/2020 1:04:44 PM 51186 Surr: Dibromofluoromethane 109 70-130 %Rec 1

95.6

70-130

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

%Rec

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2003928 24-Mar-20

Client:

Project:

Allison CQ Federal 10

Sample ID: MB-51239

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 51239

RunNo: 67448

Prep Date: 3/20/2020

SeqNo: 2328023

Units: mg/Kg

Analysis Date: 3/20/2020

PQL

HighLimit

**RPDLimit** 

Qual

Analyte Chloride

ND 1.5

Sample ID: LCS-51239

Prep Date: 3/20/2020

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 51239

RunNo: 67448

%REC LowLimit

SegNo: 2328024

Units: mg/Kg

Analyte

Analysis Date: 3/20/2020

PQL

SPK value SPK Ref Val

94.0

%RPD

%RPD

**RPDLimit** Qual

Chloride

Result

15.00

110

HighLimit

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Received by OCD: 9/27/2021 4:31:54 PM

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 6 of 11

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003928

24-Mar-20

Client:

**GHD** 

Project: Allison	CQ Federal 10								
Sample ID: LCS-51100	SampType: Lo	cs	Test	Code: EF	PA Method	8015M/D: Die	sel Range	e Organics	· · · · · · · · · · · · · · · · · · ·
Client ID: LCSS	Batch ID: 51	1100	R	tunNo: 67	7313				
Prep Date: 3/13/2020	Analysis Date: 3	/17/2020	S	eqNo: 23	321410	Units: %Red	3		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2	5,000		84.7	55.1	146			i
Sample ID: MB-51100	SampType: M	BLK	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 51		R	tunNo: 67	7313				
Prep Date: 3/13/2020	Analysis Date: 3	/17/2020	S	eqNo: 2	321412	Units: %Red	3		
	Result PQL	auley XQ2	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Surr: DNOP	9.0	10.00	Of ICTOT Val	90.4	55.1	146	701 (1 15	111	
	0		Tank	Onday F	3 0 88 a Ala a al	podratio, pi	naal Daws	o Organica	
Sample ID: LCS-51201	SampType: Lo					8015M/D: Die	esei Kangi	e Organics	
Client ID: LCSS	Batch ID: 51			lunNo: 67		11.11. 0/10			
Prep Date: 3/18/2020	Analysis Date: 3	/20/2020	8	eqNo: 2:	326279	Units: %Red	2		
Analyte	Result PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9	5.000		77.7	55,1	146	211071111		
Sample ID: MB-51201	SampType: M	BLK	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 5°	1201	R	unNo: 6	7313				
Prep Date: 3/18/2020	Analysis Date: 3	/20/2020	S	eqNo: 2	326281	Units: %Red	3		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6	10.00		86,0	55.1	146			
Sample ID: MB-51236	SampType: M	BLK	Tes	Code: Ef	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 5	1236	F	RunNo: 6	7410				
Prep Date: 3/20/2020	Analysis Date: 3	/20/2020	S	eqNo: 2	326629	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Diesel Range Organics (DRO)	ND 10						<del>_</del>		
Motor Oil Range Organics (MRO)	ND 50								
Surr; DNOP	9.7	10.00		97.2	55.1	146			
Sample ID: LCS-51236	SampType: Li	cs	Tes	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 5	1236	F	tunNo: 6	7410				

Sample ID: LCS-51236	SampT	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: <b>51</b> :	236	F	RunNo: 6	7410				
Prep Date: 3/20/2020	Analysis D	ate: 3/	20/2020	S	SeqNo: 2	326642	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.6	70	130			
Surr: DNOP	4.6		5.000		91.1	55.1	146			

# Received by OCD: 9/27/2021 4:31:54 PM Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- RL. Reporting Limit

Page 7 of 11

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003928 24-Mar-20

Client:

Project:

Allison CQ Federal 10

Sample ID: 2003928-001AMS	SampT	ype: MS	3	Tes	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: SW-8A	Batch	ID: 51	236	F	RunNo: 6	7410				
Prep Date: 3/20/2020	Analysis D	ate: 3/	20/2020	5	SeqNo: 2	327115	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	48.08	0	93.9	47.4	136			
Surr: DNOP	4.6		4.808		94.7	55.1	146			

Sample ID: 2003928-001AM	SD SampT	ype: MS	SD	Tes	(Code: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: SW-8A	Batch	1D: <b>51</b> :	236	F	RunNo: 6	7410				
Prep Date: 3/20/2020	Analysis D	ate: 3/	20/2020	8	SeqNo: 2	329241	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	47.17	0	88.3	47.4	136	8.07	43.4	
Surr DNOP	4.3		4.717		90.8	55.1	146	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit

# Received by OCD: 9/27/2021 4:31:54 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003928

24-Mar-20

Client:

GHD

Project:

Allison CQ Federal 10

Sample ID: mb-51186	Samp	ype: ME	3LK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: <b>51</b> ′	186	F	tunNo: 6	7452				
Prep Date: 3/18/2020	Analysis [	Date: 3/	20/2020	8	eqNo: 2	327660	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.7	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.1	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			
Sample ID: Ics-51186	Samp	ype: LC	S	Tes	Code: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batc	h ID: <b>51</b>	186	F	lunNo: 6	7452				
Prep Date: 3/18/2020	Analysis [	Date: 3/	20/2020	8	eqNo: 2	327661	Units: mg/K	(g		-
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	70	130			
Toluene	0.95	0.050	1.000	0	94.8	70	130			
Surr: 1,2-Dichloroethane-d4	0,50		0.5000		99.5	70	130			
	0.45		0.5000		89.5	70	130			
Surr: 4-Bromofluorobenzene	0.45					70	130			
Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	0.45		0.5000		98.3	70	130			
<b>44</b> /// 1	****		0.5000 0.5000		98.3 92.6	70 70	130			
Surr: Dibromofluoromethane	0.49 0.46	 Гуре: <b>М</b> Е	0.5000	Tes	92.6	70		tiles Short	List	

Sample ID: mb1	SampT	ype: MI	3LK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch	ID: A6	7487	F	RunNo: 6	7487				
Prep Date:	Analysis D	ate: 3/	21/2020	S	SeqNo: 2	329051	Units: %Red	3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.0	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.49		0.5000		99.0	70	130			

Sample ID: 100ng lcs	SampT	SampType: LCS			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch	ID: A6	7487	F	RunNo: 6	7487						
Prep Date:	Analysis D	ate: 3/	21/2020	S	eqNo: 2	329052	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130					
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130					
Surr: Toluene-d8	0.50		0.5000		99.1	70	130					

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Manyre servered in the associated Method Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit

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# Received by OCD: 9/27/2021 4:31:54 PM

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003928

24-Mar-20

Client:

GHD

Project:

Allison CQ Federal 10

Sample ID: mb-51242	SampT	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batcl	Batch ID: 51242			RunNo: 6	7487					
Prep Date: 3/20/2020	Analysis E	Date: 3/	22/2020	SeqNo: 2329072			Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130				
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.2	70	130				
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130				
Surr: Toluene-d8	0.49		0.5000		97.6	70	130				

O	C	Super 1.C	_CS TestCode: EPA Method 8260B: Volatiles Short List							
Sample ID: Ics-51242	Sampi	Type: LC	.5	ies	LIST					
Client ID: LCSS	Batcl	h ID: 51	242	F	RunNo: 6	7487				
Prep Date: 3/20/2020	Analysis E	Date: 3/	22/2020	8	SeqNo: 2	329073	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- tL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

2003928

24-Mar-20

Client:

**GHD** 

Project: Allison (	CQ Federal 10				
Sample ID: mb-51186	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline Range		
Client ID: PBS	Batch ID: 51186 RunNo: 67452				
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2328949	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 520 500,0	104 70	130	4	
Sample ID: Ics-51186	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline Range	***************************************	
Client ID: LCSS	Batch ID: 51186	RunNo: 67452			
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2328995	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Gasoline Range Organics (GRO)	22 5.0 25.00	0 86.4 70	130		
Surr: BFB	490 500.0	97.1 70	130		
Sample ID: mb1	SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID: PBS	Batch ID: C67487 RunNo: 67487				
Prep Date:	Analysis Date: 3/21/2020	SeqNo: 2329096	Units: %Rec		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Surr: BFB	510 500.0	103 70	130		
Sample ID: 2.5ug gro ics	SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID: LCSS	Batch ID: C67487	RunNo: 67487			
Prep Date:	Analysis Date: 3/21/2020	SeqNo: 2329097	Units: %Rec		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Surr. BFB	500 500.0	100 70	130		
Sample ID: mb-51242	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline Range		
Client ID: PBS	Batch ID: 51242	RunNo: 67487			
Prep Date: 3/20/2020	Analysis Date: 3/22/2020	SeqNo: 2329193	Units: %Rec		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Surr; BFB	540 500.0	108 70	130		
Sample ID: Ics-51242	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline Range		
Client ID: LCSS	Batch ID: 51242	RunNo: 67487			
Prep Date: 3/20/2020	Analysis Date: 3/22/2020	SeqNo: 2329194	Units: %Rec		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual		
Surr: BFB	530 500.0	107 70	130		

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E
- Value above quantitation range Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

HALL
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ANALYSIS
LABORATORY
 4

EABORATOR	H/s	ebsite: www.he	allenviror	mental.co	ากา			
Client Name: GHD	Work C	order Number	: 20039:	28			RoptNo: 1	ACO PLANT MERCHANIST STATE OF THE ACOUSTIC S
Received By: Yazmine	Garduno 3/20/2020	0 8:10:00 AM	l		Abquir	Gravi	ı	
Completed By: Leah Bac	a 3/20/2020	9:29:28 AM	İ		Appin Last	(Bu		
Reviewed By: 16 3	20/20				J-W(~y	14		
Chain of Custody								
1. Is Chain of Custody suffic	lently complete?		Yes 🛭		No		Not Present	
2. How was the sample deliv	vered?		Client					
Log In				ובי			🗀	
3. Was an attempt made to o	cool the samples?		Yes 🔽	<b>ا</b> یا	No	Ш	NA 🗌	
4. Were all samples received	l at a temperature of >0° C to	6.0°C	Yes 🛂		No		NA 🗆	
5. Sample(s) in proper conta	iner(s)?		Yes 🔽	<b>Z</b>	No			
6. Sufficient sample volume f	or indicated test(s)?		Yes 🔽	•	No			
7. Are samples (except VOA	and ONG) properly preserved	?	Yes 🔽	•	No			
8. Was preservative added to	bottles?		Yes [	j	No	V	NA 🗌	
9. Received at least 1 vial wit	h headspace <1/4" for AQ VO	A?	Yes [	]	No		NA 🗹	
10, Were any sample contained	ers received broken?		Yes L	]	No		# of preserved	ere i e i e i e i e i e i e i e i e i e
11.Does paperwork match bol (Note discrepancies on cha			Yes 🗹	]	No l		bottles checked for pH:	unless noted)
12. Are matrices correctly iden	• •		Yes 🔽	7	No (		Adjusted?	unicas noteu)
13, Is it clear what analyses we	•		Yes 🗹			5		Amountain and a second
14. Were all holding times able to be met? (If no, notify customer for authorization.)			Yes 🔽	]	No l		Checked by: DAD	3/20/20
Special Handling (if app								
15. Was client notified of all di			Yes [	]	No		na 🗹	
Person Notified:	nitady napital indicate indicate and indicate any appropriate parties of the continue and the	Date:	W. D. D. Scharphoppy		***********	erranes.		
By Whom:		Via:	] eMail	Pho	ne 🔲	Fax	☐ In Person	
Regarding:							delta da una del social del socia	
Client Instructions:								
17. Cooler Information  Cooler No Temp °C	Condition   Seal Intact	Seal No S	eal Date	s s	gned B	w l		
1 2.8	Good		· · · · · · · · · · · · · · · · · · ·		9.100.0	7:		
2 4.1	Good							
3 3.4	Good Good	·-···						
Provide a substitution of the second					· .			
Page 1 of 2	• • • • •				:		and the second s	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

RcptNo: 1

Client Name:	GHD	Work Order Number: 2003928			
Cooler No	Temp °C	Condition   Seal Intact   Seal No   Seal Date   Signed By			
5	5.0	Good			

Received by OCD: 9/27/2021 4:31:54 PM

Chain-of-Custody Record	lum-Around Time:	
Client:	Standard of Rush Name (Control of Standard of Rush Name (Control of Standard	
		70 70 70
Mailing Address:	www.hall	
	Tol FOR 24E 207E	
Phone #: \$35 -377-3920	19: 303-345-3873 Fax 505-345-4107	
email or Fax#: 、いかいいのことを下ののからいころ	Project Manager:	
QAVQC Package: glennguingy@@idica	Sill I	
	(80) (SW)	
Accreditation	Sampler: ( A Co. M.) Sampler:	
ype)	28 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 10
	MTB MTB (V) MTB (V) MOIS MOIS MOIS MOIS MOIS MOIS MOIS MOIS	Y) St
Date Time Matrix Sample Request ID	Container Preservative HEALNo. + 1 Type and # Type ACT   Type ACT	ı. Bubble
3-42 Geo S SW-8A	T	ΙΑ
3-4-319-15 SW. 7A		
420 \	600	
	2002	
75135		
25-28 9-8 J SQ - 50-50-50	(A)	
Date: Time: Refinentished by:		
2010	319/13 1130 Remarks: 24 - 0.1 - 2.8 5.1 - 0.1 = 5.0	
<u>-</u>	Date Time 3.5	
11 8 31	100 (CAMP) 3/20/20 0810 2-4-01=2.8	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 52255

#### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	52255
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bbillings	DTW eval. is weak, but remaining values are acceptable.	9/28/2021